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No. 2

SOME INTERESTING THOUGH UNSUCCESSFUL ATTEMPTS TO TRANSMIT INFLUENZA EXPERIMENTALLY.

How great are the difficulties surrounding the study of the nature of the virus of influenza is indicated by the following summary of two series of experiments recently carried out, one at Boston and one at San Francisco.

BOSTON EXPERIMENTS.

These experiments were carried on jointly by Lieut. Commander M. J. Rosenau, Medical Corps, U. S. N. R. F., and Lieut. W. J. Keegan, Medical Corps, U. S. N. R. F. and by Surg. Joseph Goldberger and Asst. Surg. G. C. Lake, United States Public Health Service, at the United States Quarantine Station, Gallop's Island, Boston, Mass. The subjects of experiment were 68 volunteers from the United States Naval Detention Training Camp, Deer Island, Boston. These volunteers had been exposed in some degree to an epidemic of influenza at the training camp or at some station prior to coming to Deer Island; 47 of the men were without history of an attack of influenza during the recent epidemic and 39 of these were without history of an attack of such illness at any time during their lives.

The experiments consisted of inoculations with pure cultures of Pfeiffer's bacillus, with secretions from the upper respiratory passages, and with blood from typical cases of influenza. The study was begun on November 13 with an experiment in which a suspension of a freshly isolated culture of Pfeiffer's bacillus was instilled into the nose of each of 3 nonimmunes and into 3 controls who had a history of an attack in the present epidemic. None of these volunteers showed any reaction following this inoculation. Another experiment was made at a later date with a suspension of a number of different pure cultures of Pfeiffer's bacillus, of which 4 were recently isolated. Ten presumably nonimmune volunteers were inoculated, with the same negative results.

Three sets of experiments were made with secretions, both unfiltered and filtered, from the upper respiratory tract of typical cases of influenza in the active stage of the disease. In these experiments a total of 30 men were subjected to inoculation by means of spray,

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swab, or both, of the nose and throat. The interval clapsing between securing secretions from the donors and inoculation of the volunteers was progressively reduced in these experiments so that in the third of the series the interval at most was 30 seconds. In no instance was an attack of influenza produced in any one of the subjects. An experiment was made in which the members of one of the groups of volunteers which had been subjected to inoculation with secretions were exposed to a group of cases of influenza in the active stage of the disease in a manner intended to simulate conditions which in nature are supposed to favor the transmission of the disease. Each of this group of 10 volunteers came into close association for a few minutes with each of 10 selected cases of influenza in the wards of the Chelsea Naval Hospital. At the time the volunteers were exposed to this infection the cases were from 10 to 84 hours from the onset of their illness and 4 of them were not over 24 hours after the onset. Each volunteer conversed a few minutes with each of the selected patients, who were requested to, and coughed into the face of each volunteer in turn, so that each volunteer was exposed in this manner to all 10 cases. The total exposure amounted to about three-quarters of an hour for each volunteer. None of these volunteers developed any symptoms of influenza following this experiment.

Advantage was taken of the opportunity for making this study to attempt to confirm the reported positive results of transmission of influenza by Nicolle. Secretions from 5 typical cases of influenza were secured, filtered, and some of the filtrate was inoculated subcutaneously into each of the group of 10 volunteers. At the same time blood was drawn from the same cases and pooled, and some of the mixed blood injected subcutaneously into each of another group of 10 volunteers. The time lost between drawing the blood and inoculating it in no case exceeded three-quarters of an hour. None of the men subjected to these inoculations developed any evidences of illness.

In the foregoing experiments the patients serving as donors belonged to groups from epidemic foci either on shipboard or at institutions. The great majority indeed belonged in a group from an epidemic on board the U. S. S. Yacona. Of the personnel of this vessel, 95 in number, 80, or 84 per cent, were stricken with the disease in an epidemic between November 17 and 29.

SAN FRANCISCO EXPERIMENTS.

The following observations were carried out practically simultaneously with those described above. The work was done at the Angel Island Quarantine Station, San Francisco, Cal., utilizing volunteers from the Yerba Buena Naval Training Station, San Francisco. The experiments were carried on jointly by Surg. G. W.

McCoy, of the United States Public Health Service, and Lieut. De Wayne Richey, United States Navy. The volunteers who were used in these experiments differed from those used at Boston in two respects—first, the personnel of the Yerba Buena Station had not been exposed to influenza in the present epidemic and were therefore presumed not to possess any special natural immunity; second, all of the men had been vaccinated with large doses of a bacterial vaccine containing Pfeiffer's bacilli, the three fixed types of pneumococci and hæmolytic streptococci. We are not prepared at present to state what influence this vaccination may have had in promoting resistance to influenza infection, but if we may judge by the results of controlled experiments elsewhere such vaccination may for the present purpose be ignored.

Brief details of the experiments are as follows:

Work with Cultures.

A group of 10 volunteers was divided into 2 equal squads. One group had instilled into the nostrils of each man a heavy suspension made by emulsifying cultures of 8 strains of Pfeiffer's bacillus without filtration. The other group had the same material used after passage through a Berkefeld N candle. The results were negative, though the men were held under observation for seven days.

Work With Secretions.

Four groups of volunteers, of 10 men each, were used for these experiments. Emulsions of secretions from the upper respiratory passages of active cases of influenza from 15 to 48 hours from the onset were instilled into the nose by means of a medicine dropper or with an atomizer. In each experiment approximately an equal number of volunteers were treated with the same emulsion after filtration through a Berkefeld N candle. In every case the results were negative, so far as the reproduction of influenza is concerned. The men were all observed for 7 days after inoculation. In 3 cases in which unfiltered material had been instilled sore throat developed which corresponded clinically with acute tonsillitis, and in two of these cases an almost pure culture of a hæmolytic streptococcus was secured from throat cultures.

A filtered emulsion of material from the upper air passages of an acute case of influenza was dropped into the conjunctive of 2 volunteers and the same material injected subcutaneously into 1 volunteer. In each case the result was negative.

One cubic centimeter of blood taken during the active stage of influenza was inoculated subcutaneously into 1 volunteer with negative results.

In all of these experiments the time between the collection of the material from the patient and its inoculation into the volunteers was in the neighborhood of 3 or 4 hours. The conditions under which it was necessary to conduct experiments did not permit of a shorter interval. The unfiltered suspensions which were used were submitted to cultural examination after inoculation and found to contain living organisms as follows: Pfeiffer's bacillus, pneumococci of group 4, and hæmolytic streptococci.

EDITORIAL NOTE.—The foregoing experiments, though extremely interesting, do not, of course, warrant final conclusions. It is hoped that it may be possible to carry the studies further and that results may be obtained that will definitely settle the nature and the mode of spread of the virus of epidemic influenza. For the present the sanitarian will do well to continue to apply the general principles of control that are based on the justifiable assumption that the disease is a droplet infection, giving, however, increased attention to a point that is suggested by these experiments—namely, an infective period at the very earliest stages of the attack.

It would seem to be wise to give renewed emphasis to the importance of going to bed at the slightest indications of illness.

EPIDEMIC INFLUENZA.

PREVALENCE IN THE UNITED STATES.

The prevalence of influenza in the United States, as reported to the Public Health Service by State health officers, is shown under the heading "Current State Summaries," page 46, of this issue of the Public Health Reports. In general, the reports do not show decided changes in the number of cases of the disease as compared with the preceding week.

Slight increases in the number of cases are reported from Alabama, Arkansas, California, Connecticut, Kansas, Louisiana, Massachusetts, New Jersey, North Carolina, Oregon, Vermont, and Virginia. Slight decreases in the number of cases are reported from Illinois, Indiana, Iowa, Maine, and Michigan.

The cases reported in the zones around military camps are shown on page 50. Data from these zones for preceding weeks are given in the Public Health Reports, vol. 34, No. 1, January 3, 1919, pages 1 and 2.

RURAL SANITATION A PRESENT NECESSITY.

Time and again students of public health have called attention to the backward state of sanitary conditions in rural districts and to the influence of this on the health of city dwellers. There is considerable evidence, moreover, to show that whereas in cities health conditions, as measured by the general death rate, are quite generally improving, conditions in the rural districts are almost stationary. When one considers the many natural advantages inherent in life in the country, it is probable that the insanitary conditions responsible for the almost

stationary death rate are the results of ignorance and neglect and that they are susceptible to improvement and correction.

Several years ago, in order to ascertain more definitely what are the sanitary conditions the rural districts of the United States, and to determine what are the feasible methods most of improving or correcting such conditions, the Public United States Health Service began a survey in 15 counties located in various parts of the United States. This study has already been so fruitful that the results obtained have been embodied in a progress report, "Rural Sanitation,"1 by Surg. L. L. Lumsden, under whose direction the work was conducted.

While the sanitary problems encountered in various parts of the country vary considerably, several of them are common to all, namely, the proper disposal of human ex-

CHART 5.

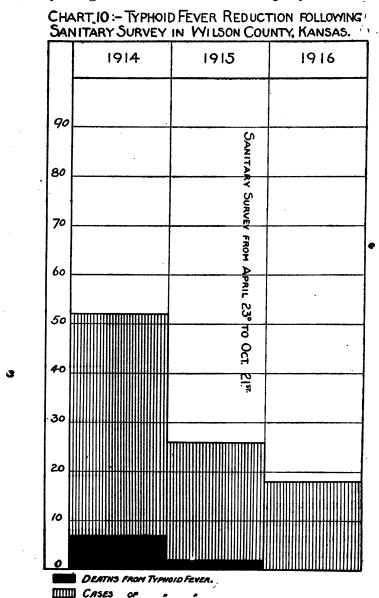
DEATHS FROM TYPHOID FEVER IN BERKELEY
COUNTY, W. VIRGINIA, IN THE 3 YEARS BEFORE
AND IN THE 3 YEARS AFTER SANITARY SURVEY
BY U.S. PUBLIC HEALTH SERVICE.

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	U.S. PUBLIC DEATHS FROM TYPH	HEALTA SERVICE OID FEVER.

creta, and education of the people in health matters. In the survey just mentioned over 51,000 country homes were visited and surveyed, and nearly 20,000 of these were subsequently revisited.

¹ Rural Sanitation, A report on special studies made in 15 counties in 1914, 1915, and 1913. Public Health Bulletin 94, October, 1918. Government Printing Office, Washington, D. C.

Of these 51,000 homes only 1.22 per cent were equipped for the sanitary disposal of human excreta; at 68 per cent the water supply used for drinking and ordinary purposes was obviously exposed to potentially dangerous contamination from privy contents or from



promiscuous deposits of human excreta. In the majority of homes the water was exposed also to unwholesome pollution from stable yards and pig sties. At only 32.88 per cent of the farm houses were the dwellings during the summer season effectively screened to prevent flies from carrying filth into kitchens and dining rooms.

The lack of knowledge concerning health matters paralleled the insanitary conditions disclosed by the survey, and very likely was largely responsible for these conditions. However, it is certainly encouraging to find that at only 91 of the 51,000 farm houses visited did the investigators fail to meet with a reasonably cordial reception. The people generally expressed their approval of the plan and purpose of the survey and appeared anxious to obtain suggestions about the measures needed for correction of insanitary conditions at their homes.

During the course of the work 865 public lectures were given to a total of over 105,000 persons.

So far as the results thus far obtained from this survey are concerned, it is interesting to observe the course of the typhoid fever rate, for this is generally accepted as perhaps the most reliable single index of this kind of health work. With few exceptions there was a remarkable decrease in the prevalence of typhoid fever in all the 15 counties where the work was carried on. The degree of the reduction is well shown by accompanying typical charts reproduced from the bulletin.

The work carried on in the 15 counties covered by this report shows not only that intensive public health work in rural communities is urgently needed, but that the results of well-planned work in the field are so excellent that expenditures for intensive rural health work constitute really wise economy.

PREVALENCE OF DISEASE.

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.

UNITED STATES.

EXTRA-CANTONMENT ZONES—CASES REPORTED WEEK ENDED JAN. 4. 1

CAMP DIX ZONE, N. J.

CAMP BEAUREGARD ZONE, LA.

CAMI DEACHEGAND BOND, MI.		VIII. 2111 202(2) 111 V	
Gonorrhea: Cas	es.	Diphtheria: Cas	es.
Alexandria	4	New Hanover Township	2
Influenza:	_	Influenza:	
Alexandria	108	Mansfield Township	1
Pineville.	46		24
Rural district	20	Temperson Dorough	2 7
	20	CAMP DODGE ZONE, IOWA.	
Measles:	_		
Alexandria	1	Bloomfield Township:	
CAMP BOWIE ZONE, TEX.		Mumps	1
CAMI DOWN BOND, 1231		Des Moines:	
Fort Worth:		Diphtheria	4
Chicken pox	2	Influenza	9
Diphtheria	1	Scarlet fever	5
Gonorrhea	5	Smallpox	1
Influenza.	9	Grimes:	-
Measles	1	Influenza	4
Pellagra	i	Indenza	7
Pneumonia	36	CAMP DONIPHAN ZONE, OKLA.	
	1	Garage Alanda and a	
Syphilis	1	Comanche County:	
Tuberculosis	3		11
BREMERTON ZONE, WASH.		Lawton:	
Diagram Borra, Wildin	I	Gonorrhea	4
Influenza	1	Influenza	1
Scarlet fever	2	Pneumonia	1
	.		
CHARLESTON SANITARY DISTRICT, S. C.		CAMP EBERTS ZONE, ARK.	
CHARLESTON SANITARY DISTRICT, S. C.		CAMP EBERTS ZONE, ARK.	
CHARLESTON SANITARY DISTRICT, S. C. Charleston:		CAMP EBERTS ZONE, ARK. Diphtheria:	1
CHARLESTON SANITARY DISTRICT, S. C. Charleston: Diphtheria	2	CAMP EBERTS ZONE, ARK. Diphtheria: Carlisle	1
CHARLESTON SANITARY DISTRICT, S. C. Charleston:	- 1	CAMP EBERTS ZONE, ARK. Diphtheria: Carlisle	_
CHARLESTON SANITARY DISTRICT, S. C. Charleston: Diphtheria Influenza	- 1	CAMP EBERTS ZONE, ARK. Diphtheria: Carlisle	1
CHARLESTON SANITARY DISTRICT, S. C. Charleston: Diphtheria	- 1	CAMP EBERTS ZONE, ARK. Diphtheria: Carlisle	1
CHARLESTON SANITARY DISTRICT, S. C. Charleston: Diphtheria	103	CAMP EBERTS ZONE, ARK. Diphtheria: Carlisle Gonorrhea: England Influenza: Austin, R. F. D	1
CHARLESTON SANITARY DISTRICT, S. C. Charleston: Diphtheria	3	CAMP EBERTS ZONE, ARK. Diphtheria: Carlisle Gonorrhea: England Influenza: Austin, R. F. D Cabot	1 1 15
CHARLESTON SANITARY DISTRICT, S. C. Charleston: Diphtheria	103	CAMP EBERTS ZONE, ARK. Diphtheria: Carlisle Gonorrhea: England. Influenza: Austin, R. F. D. Cabot. Cabot, R. F. D.	1
CHARLESTON SANITARY DISTRICT, S. C. Charleston: Diphtheria	3	CAMP EBERTS ZONE, ARK. Diphtheria: Carlisle Gonorrhea: England. Influenza: Austin, R. F. D. Cabot. Cabot, R. F. D. Carlisle.	1 1 15
CHARLESTON SANITARY DISTRICT, S. C. Charleston: Diphtheria	3 5	CAMP EBERTS ZONE, ARK. Diphtheria: Carlisle Gonorrhea: England. Influenza: Austin, R. F. D. Cabot. Cabot, R. F. D. Carlisle.	1 1 15 6
CHARLESTON SANITARY DISTRICT, S. C. Charleston: Diphtheria	3 5 22	CAMP EBERTS ZONE, ARK. Diphtheria: Carlisle Gonorrhea: England. Influenza: Austin, R. F. D. Cabot. Cabot, R. F. D.	1 1 15 6 1
CHARLESTON SANITARY DISTRICT, S. C. Charleston: Diphtheria	3 5 22 37	CAMP EBERTS ZONE, ARK. Diphtheria: Carlisle. Gonorrhea: England. Influenza: Austin, R. F. D. Cabot. Cabot, R. F. D. Carlisle. England. England, R. F. D.	1 1 15 6 1
CHARLESTON SANITARY DISTRICT, S. C. Charleston: Diphtheria	3 5 22 37 4	CAMP EBERTS ZONE, ARK. Diphtheria: Carlisle Gonorrhea: England Influenza: Austin, R. F. D. Cabot. Cabot, R. F. D. Carlisle. England England England, R. F. D. Lonoke.	1 1 15 6 1 2 1
CHARLESTON SANITARY DISTRICT, S. C. Charleston: Diphtheria	3 5 22 37	CAMP EBERTS ZONE, ARK. Diphtheria: Carlisle Gonorrhea: England. Influenza: Austin, R. F. D. Cabot Cabot. R. F. D. Carlisle England England, R. F. D. Lonoke Lonoke, R. F. D.	1 1 15 6 1 2 1 4
CHARLESTON SANITARY DISTRICT, S. C. Charleston: Diphtheria	3 5 22 37 4	CAMP EBERTS ZONE, ARK. Diphtheria: Carlisle Gonorrhea: England. Influenza: Austin, R. F. D Cabot Cabot. R. F. D Carlisle England England England England Lonoke Lonoke, R. F. D Ward	1 1 15 6 1 2 1
CHARLESTON SANITARY DISTRICT, S. C. Charleston: Diphtheria	3 5 22 37 4 3	CAMP EBERTS ZONE, ARK. Diphtheria: Carlisle Gonorrhea: England. Influenza: Austin, R. F. D Cabot Cabot., R. F. D Carlisle England England England England England England England Mard Malaria:	1 15 6 1 2 1 4 33 25
CHARLESTON SANITARY DISTRICT, S. C. Charleston: Diphtheria	3 5 22 37 4	CAMP EBERTS ZONE, ARK. Diphtheria: Carlisle Gonorrhea: England. Influenza: Austin, R. F. D Cabot Cabot., R. F. D Carlisle England England England England England England England England England Lonoke Lonoke Lonoke Lonoke England Malaria: England	1 1 15 6 1 2 1 4
CHARLESTON SANITARY DISTRICT, S. C. Charleston: Diphtheria	3 5 22 37 4 3	CAMP EBERTS ZONE, ARK. Diphtheria: Carlisle Gonorrhea: England. Influenza: Austin, R. F. D Cabot Cabot, R. F. D Carlisle England England England Lonoke Lonoke, R. F. D Ward Malaria: England England Pneumonia:	1 1 15 6 1 2 1 4 33 33 25
CHARLESTON SANITARY DISTRICT, S. C. Charleston: Diphtheria	3 5 22 37 4 3	CAMP EBERTS ZONE, ARK. Diphtheria: Carlisle Gonorrhea: England. Influenza: Austin, R. F. D. Cabot. Cabot, R. F. D. Carlisle. England England, R. F. D. Lonoke. Lonoke, R. F. D. Ward. Malaria: England Pneumonia: England Pneumonia: England	1 15 6 1 2 1 4 33 25
CHARLESTON SANITARY DISTRICT, S. C. Charleston: Diphtheria	3 5 22 37 4 3 1	CAMP EBERTS ZONE, ARK. Diphtheria: Carlisle Gonorrhea: England. Influenza: Austin, R. F. D Cabot Cabot, R. F. D Carlisle England. England, R. F. D Lonoke, Lonoke, R. F. D Ward Malaria: England Pneumonia: England Septic sore throat:	1 1 115 6 1 2 1 4 333 225
CHARLESTON SANITARY DISTRICT, S. C. Charleston: Diphtheria	3 5 22 37 4 3	CAMP EBERTS ZONE, ARK. Diphtheria: Carlisle Gonorrhea: England. Influenza: Austin, R. F. D. Cabot. Cabot, R. F. D. Carlisle. England England, R. F. D. Lonoke. Lonoke, R. F. D. Ward. Malaria: England Pneumonia: England Pneumonia: England	1 1 15 6 1 2 1 4 33 33 25
CHARLESTON SANITARY DISTRICT, S. C. Charleston: Diphtheria	3 5 22 37 4 3 1	CAMP EBERTS ZONE, ARK. Diphtheria: Carlisle Gonorrhea: England. Influenza: Austin, R. F. D. Cabot Cabot, R. F. D. Carlisle England England, R. F. D. Lonoke Lonoke, R. F. D. Ward. Malaria: England Pneumonia: England Septic sore throat: Ward.	1 1 115 6 1 2 1 4 333 225

CAMP FUNSTON ZONE, KANS.		GULFFORT HEALTH DISTRICT, MISS.	
Chicken pox: Ca	ises.	Diphtheria: C	ases
Manhattan	1	Biloxi	
Gonorrhea:		Gonorrhea:	
Junction City	1	Gulfport.	
Influenza:		Kiln	
Flush		Pascagoula	. :
Manhattan		Hookworm:	
OgdenRandolph		Biloxi Influenza:	. (
Measles:	1,	Bay St. Louis	
Manhattan	1	Biloxi	
Meningitis carriers:	_	Gulfport	
Junction City	2	Handsboro	
Mumps:		Long Beach	
Manhattan	4	Lyman	. 19
Pneumonia:		Mississippi City	
Manhattan	3	Moss Point	
Scarlet fever:	_	Ocean Springs	
Manhattan	3	Pascagoula	. 16
GAS AND FLAME SCHOOL ZONE, GA. AND ALA	١.	Pass Christian	
Chicken new		Saucier	
Columbus	1	Malaria:	. 13
Diphtheria:	•	Gulfport	. 1
Phenix City	1	Moss Point	
Influenza:	-	Mumps:	٠
Bibb City	1	Gulfport	. 1
Columbus	49	Pascagoula	
* Girard	2	Pneumonia:	
Muscogee County	25	Biloxi	17
Phenix City	12	Gulfport	7
Measles:		Long Beach	
Columbus	5	Lyman.	
Pneumonia:		Mississippi City	
Columbus	5	Moss Point	
Girard	2	Pass Christian	1
Smallpox: Columbus		CAMP HANCOCK ZONE, GA.	
Tuberculosis:	4	Augusta:	
Columbus	1	Cerebrospinal meningitis	2
	-	Gonorrhes	_
GERSTNER FIELD ZONE, LA.		Influenza	
Influenza	82	-Syphilis	19
Pneumonia	5	CAMP HUMPHREYS ZONE, VA.	
Smallpox	15	•	
•		Alexandria: Influenza	61
CAMP GORDON ZONE, GA. Atlanta:		Pneumonia	
Chicken pox	1	Scarlet fever.	
Gonorrhea.	40	¥ .	•
Influenza	52	CAMP JACKSON ZONE, S. C.	
Measles.	1	Columbia:	
Pneumonia	3	Influenza	
Scarlet fever	2	MeaslesPneumonia	1
Smallpox	19	Typhoid fever	3 1
Syphilis	21	United States Government Clinic:	•
Tuberculosis	1	Gonorrhea	1
CAMP GREENE ZONE, N. C.	1	Syphilis	15
·		••	
Charlotte Township:	1	CAMP JOSEPH E. JOHNSTON ZONE, FLA.	
Cerebrospinal meningitis	3	Jacksonville:	
Gonorrhea.	7	Chancroid	3
Influenza.	62	Gonorrbea	21
Mumps	2	Influenza	15
Scarletfever.	1	Meriles.	43
Syphilis	8	Pneumonia	2

CAMP JOSEPH E. JOHNSTON ZONE, FLA.—cont	d.	CAMP MERRITT ZONE, N. J.—continued.	
Jacksonville—Continued.	ses.		ases
Scarlet fever	1	Englewood	. 1
Syphilis	35	Gonorrhea:	
Tuberculosis	4	Englewood	. :
FORT LEAVENWORTH ZONE, KANS.		Influenza:	
FORT LEAVEN WORTH ZONE, KANS.		Closter	
Diphtheria:		Dumont	
Leavenworth	2	Englewood	. 96
Gonorrhea:		Haworth	. 1
Leavenworth	1	Pneumonia:	
Influenza:		Dumont	. 1
Leavenworth	3	Englewood	. 6
Leavenworth County	24	Haworth	. 2
		Scarlet fever:	
CAMP LEE ZONE, VA.		Englewood	. 1
Ettricks: Diphtheria	1	NORTH COLUMN TOWN ON ANY THINK	
Influenza	_	FORT OGLETHORPE ZONE, GA. AND TENN.	
· · · · · · · · · · · · · · · · · · ·	•	Diphtheria:	
Petersburg:	1	Chattanooga	1
Diphtheria		Influenza:	
Influenza		Chattanooga	53
Measles		Eastlake	2
Pneumonia	19 3	North Chattanooga	
Tuberculosis	3	Measles:	
Prince George County:	5	Chattanooga	1
Influenza	3	North Chattanooga	1
CAMP LEWIS ZONE, WASH.		Scarlet fever	
Influenza:		Chattanooga	.1
American Lake	1		•
Lakeview	3	PENSACOLA SANITARY DISTRICT, FLA.	
Loveland	13	Influenza	46
Spanaway	1	Pneumonia	
<i>Брана</i> жау	•	Tuberculosis	1
CAMP LOGAN ZONE, TEX.			
Houston:		PICRIC ACID PLANT ZONE, GA.	
Chancroid	2	Brunswick:	
Gonorrhea	8	Cerebrospinal meningitis	1
Influenza	5	Influenza	10
Syphilis	3 2	Measles	10
		Pneumonia	1
CAMP MACARTHUR ZONE, TEX. Waco:			
Gonorrhea	2	CAMP PIKE ZONE, ARK.	
Influenza	2	Chancroid:	_
Pneumonia	3	Little Rock	1
Syphilis	1	Chicken pox:	_
Tuberculosis	3	Little Rock	2
	u	Díphtheria:	
CAMP M'CLELLAN ZONE, ALA.		Little Rock	1
Anniston:		Gonorrhea:	
Gonorrhea	2	Little Rock	
Influenza.	5	North Little Rock	1
Muzips	2	Scott	1
Pneumonia.		Influenza:	
Syphilis	1 3	Cabot	1
	۰	Little Rock	113
Precinct 15: Influenza	. 1	North Little Rock	18
11111011103	1	Laryngitis:	
CAMP MERRITT ZONE, N. J.		Little Rock	1
Vicinia monated at a United At		Malaria:	
Cerebrospinal meningitis:		Little Rock	1
Englewood	1	North Little Rock	1
Chicken pox:	_	Measles:	
Englewood	1	Little Rock	6
Tenafly	i	North Little Rock	6
Diphtheria:	-	Meningitis:	-
Tenafly	1	Little Rock	1

CAMP PIKE ZONE, ARK.—continued.		CAMP SEVIER ZONE, S. C.	
Manaps: . Ca	ses	Chicken pox:	ases.
Little Rock	2	Greenville (suburban)	
Pneumonia:		Influenza:	
Little Rock	10	Greenville and vicinity	141
North Little Rock	1	Mumps:	
Scarlet fever:		Greenville	1
Little Rock	1	Pneumonia:	
Syphilis: Little Rock	14	Greenville and vicinity	4
Little Rock	14	Tuberculosis: Greenville	
CAMP POLK ZONE, N. C.		Whooping cough:	1
•		Greenville	3
Chicken pox:	_	Greenving.	0
Durham	1	CAMP SHERIDAN ZONE, ALA.	
Influenza:	-00	Montgomery:	
Durham	90	Chicken pox	3
Durham County Raleigh	62 97	Gonorrhea	5
Measles:	31	Scarlet fever	1
Wake County	1	Tuberculosis, pulmonary	1
Pneumonia:	-	United States Government Clinic:	
Wake County	. 1	Gonorrhea	4
Scarlet fever:		Syphilis	5
Durham County	2	CAMP SHERMAN ZONE, OHIO.	
Wake County	2	Chillicothe:	
Smallpox:		Diphtheria	1
Durham	2	Influenza	3
Tuberculosis, pulmonary:		Scarlet fever	1
Wake County	2	Typhoid fever	1
Typhoid fever:		Ross County:	
Wake County	1	Influenza	23
Whooping cough: Durham		United States Government Clinic:	
Wake County	1 2	Generalis	4
wate county	-	Syphilis	1
PORTSMOUTH AND NORFOLK COUNTY HEALTH I	ois-	CAMP ZACHARY TAYLOR ZONE, KY. AND IND.	
TRICT, VA.		Chancroid:	
Chancroid:		United States Government clinic	1
Norfolk	1	Diphtheria:	
Diphtheria:		Clark County	1
Port Norfolk.	1	Jefferson County	1
Portsmouth	1	Louisville	5
South Norfolk	1	Gonorrhea:	
Norfolk	6	Venereal clinic, county jail	13
Influenza:	٠ 1	United States Government clinic Influenza:	17
Norfolk	2	Clark County	32
Norfolk County	41	Floyd County	11
Portsmouth		Jefferson County	59
Measles:	- 1	Jeffersonville	18
Ocean View	2	Louisville	77
Pneumonia:	- {	New Albany	40
Portsmouth	3	Measles:	
Syphilis:	1	Jefferson County	1
Norfolk	3	Louisville	2
		Pneumonia: Louisville	
PORTSMOUTH-KITTERY SANITARY DISTRICT, N. H. A	ND		1
ME.	İ	Rabies in animal: Louisville	1
Chicken pox: York	.	Scarlet fever:	•
YorkGonorrhea:	1	Louisville	1
Portsmouth	,	Syphilis:	-
Influenza:	• 4	Venereal clin c, county jail	6
Hampton Falls	8	United States Government clinic	19
Portsmouth	49	Tuberculosis:	
York	1	Louisville	7

TIDEWATER HEALTH DISTRICT, VA.		CAMP WADSWORTH ZONE, S. C.	
Newport News: Ca	ses.	Influenza; Ca	ses.
Chicken pox	1	Drayton	12
Gonorrhea	1	Spartanburg	26
Influenza	151	Measles:	
Measles	4	Spartanburg	1
Pneumonia	1	Pneumonia:	
Scarlet fever	1	Fairforest	1
Syphilis	1		
Tuberculosis	2	41347 WWW.TT0347 44	
Phoebus:	_	CAMP WHEELER ZONE, GA.	
Measles	1	Macon:	_
	•	Diphtheria	1
CAMP TRAVIS ZONE, TEX.		Influenza	27
San Antonio:		Measles	4
Chancroid	3	Meningitis	1
Gonorrhea	19	Scarlet fever	1
Influenza			
Measles.	1	WILMINGTON SANITARY DISTRICT, N. C.	
Pneumonia	8	Cape Fear Township:	
Syphilis	5	Influenza	3
Tuberculosis	7	Wilmington:	
Typhoid fever	2	Chicken pox	3
•	- 1	Influenza.	31
CAMP UPTON ZONE, N. Y.		Measles	1
Riverhead:		Mumps.	i
Mumps	1	Pneumonia.	2
Pneumonia	1	Scarlet fever	1
VANCOUVER ZONE, WASH.		Tuberculosis	-
Influenza	41		2
Amin utiliza	41 1	Typhoid fever	3

DISEASE CONDITIONS AMONG TROOPS IN THE UNITED STATES.1

The following data are taken from telegraphic reports received in the office of the Surgeon General of the United States Army for the week ended December 27, 1918:

Annual admission rate per 1,000 (disease only):	
All troops	787.55
Divisional camps	716, 42
Cantonments	734.11
Departmental and other troops	890.01
Noneffective rate per 1,000 on day of report:	
All troops	42.03
Divisional camps	
Cantonments	37. 93
Departmental and other troops	46. 91
Annual death rate per 1,000 (disease only):	
All troops.	12.17
Divisional camps	6. 67
Cantonments	11.37
Departmental and other troops	15.90

¹ Including Porto Rico.

Cases of special diseases reported during the week ended Dec. 27, 1918.

Camp.	·ģ		1004	(Cls	eases.							o de
camp.		Þ		-	,	_ ا		is.	ver.		rate per 1,00 (disease only).	tive p n day
	l i	nter	曹	١.,	la a	1 2	98	ig i	9t 56	is	181 8	9 8 g
	Pneumonia.	Dysentery	Malaria.	Total.	New-infec- tions.	Influenza.	Measles.	Meningitis.	Scarlet fever.	Deaths	Annual rate (disea	Noneffective 1,000 on da
BeauregardBowie	8 8	2	3	22			. 7	2		. 1	963. 8	34.6 31.41
Cada				. 6		1			2		1,761.34 666.6	87.8
Forrest Fremont	2		·····	1		: '''i	24		·	. 1	1 1 HI4 X3	
Greene	5 3			39		. 7	2			. 2	547.3 473.9	52.04 30.2 35.5
	3 12		····i	44		1	5	1 1	i	4 3	604.4 520.9	35.5 43.4
Hancock Kearny Logan MacArthur McClellan	7		<u>.</u>	. 19	4	25	13	1			348.99	16.59
Logan	7 5 2 32	¦		6	1		13	1 1		. 1	1 607.06	38. 86 38. 64
McClellan	32			5	· · · · · ·	30	. 4			. 3	396. 87 820. 51	50.12
	2			14	3	17	. 8	1		. 3	737.14	40.13 70.9
Shelby Sheridan Wadsworth Wheeler	2 7 5 3 2 8 12			14 23 21	12	25	. 4			1 1	1,329.2 996.4	46.02
Wadsworth	3			. 8	Ĭ		. 15			. î	324.07	43.8
Custer	8			18	5	-	. 3		2	2	1,369.4 504.5	172.6 18.47
	12			I 24	5	8	5 2		ļ <u>.</u>	. 6	459.0	31.1
Dix	7 2			5 22	11	. 21	17		3	1	714.78 1,256.8	45.15 49.2
Eustis	15			4		51 13	2			. 4	357.23	10.82
Funston	18		•••••	10		. 17	2 4 1	5	17	5	708.83	39.4 50.4
Comme	9			18 3 6		35	5 2			8	775. 7 428. 21	28, 24
Humphreys	13 14			6 25	2	38	2	····i		. 8	602.85	25. 43 31. 5
Humphreys. Jackson J. E. Johnston	4		1	8	2		11 7	l		5 3 3	411.3 643.5	31.9
LAS CASAS	5		25	l		14	1	ļ <u>.</u> .		3	592.4	31.9 22.15 48.3
LeeLewis.	117			17 20	4 2	63	19 5	4	6	4	673.7 1,067.3	51.4
Lewis. Meade. Pike	15	1		37	3	28 20 29	17	1		. 6	677.4	25.6
Sherman	8		• • • • • •	13 10	·····	29	3 5		1	10	1,152.3 500.3	50.5 44.5
Taylor	7			9	3	10	2	1	8	10	550.2	51.5
Upton	32		• • • • • •	12 24	1	80 25	21		1	11 7	2,034.49 505.1	61.76 34.6
Northeastern depart-	- 1										İ	1
ment Eastern department Southeastern depart-	6		•••••	8 11	5 2	16 53	1	1	2	3 6	792.25 416.7	37.45 19.34
ment	2 15		<u>.</u>	5 77	2 9	24 91	1		• • • • • •	10	999.1 880.3	38.12
Central department	19			1		21	8		i	10	1.694.61	39. 2 39. 14
Western department Aviation camps	1 43		•••••	7 50	3	102	7		$\frac{1}{2}$	5 27	772.97 682.41	27.09 33.57
Port of embarkation:	43		•••••	30		102	1		2	21	i	33.37
Hoboken Newport News Alcatraz, disciplinary	21 2		1	56 81	2	160	9 10	1	•••••	15 4	2,740.58 2,840.74	224. 93 99. 91
barracks Leavenworth, disciplinary barracks			•••••			 -			•••••		936	12
nary barracks	1					 	1		3		1,314.82	41.89
Jefferson Barracks Columbus Barracks	4		•••••	4 9	4 7	11	2		• • • • • •	2	1,530.34 2,023.6	79.09 78.5
Fort Logan										1	662.03 321.78	45.13
Fort Logan Fort McDowell Fort Sill	1 2		•••••	3	3 25		•••••		•••••	<u>2</u>	321.78 370.53	35.89 21.31
Fort Slocum			• • • • • • •	25 3	25	42				2	229.58	21. 31 20. 75
Fort Thomas	1			1	1				•••••	1	509.3	20.75 46.3
Arsenals	8			10	i	12	····i			2	1,419.9 630.95	27.3 31.47
Miscellaneous small sta-	2			3	1		8			-	337.71	12.82
Students Army Training Corps	4		•••••	3	1		8				331.11	14.04
General hospitals										44		
Total	539	3	33	1,055	131	1,191	287	22	50	260	787. 55	42.03

Annual rate per 1,000 for special diseases.

Disease.	All troops in United States.1	Depart- mental and other troops;1	Divisional camps.1	Canton- ments.1	Expeditionary forces. ²
Pneumonia. Dysentery. Malaria. Venereal. Paratyphoid.	1.64 52.44	17.54 .41 4\$.53	26. 71 . 55 1. 10 115. 74	33.37 .10 2.81 30.88	30. 68 1. 45 . 18 26. 65 . 40
Typhoid Measles Meningitis Scarlet fever Intuenza	14. 26	6. 85 . 41 1. 23 80. 20	30.32 1.94 .83 41.73	13.87 1.30 4.11 49.41	1.66 6.69 2.92 1.07

¹ Week ended Dec. 27, 1918.

Annual death rate (disease only): All troops in United States and A. E. F., France, for the week ending Dec. 19, 1918, 9.86.

CURRENT STATE SUMMARIES.

Telegraphic Reports for Week Ended January 4, 1919.

Alabama.—Influenza in State, 1,212 cases.

Arkansas.—Influenza: Leola 150 cases, 4 deaths; Scott 80 cases, 3 deaths; Lee 77, Conway County 79, Hempstead 86, Bradley 49, Texarkana (vicinity) 39, Halley 27, Stamps 30, Warren 26, Guion 25, Fayetteville 20, Izard 18, Garland 16, Pope 13, Dalark 12; also 30 others reported. Typhoid fever 5, smallpox 1, malaria 8, pellagra 1, tuberculosis 8, scarlet fever 1, diphtheria 1.

California.—Influenza: Reported during week 6,500 cases, still prevalent in most communities (total cases reported to date 240,800). Smallpox outbreak in vicinity of Watsonville, total 46 cases, 12 still under quarantine. Three smallpox Long Beach, 1 Sisson, 1 Kern County.

Connecticut.—Cerebrospinal meningitis, New Haven 1; influenza for State, 1,619.

Minois.—Influenza recrudescence: Fall Creek Township (Adams County) 31, Palestine 23, De Kalb 42, Farina 93, Roberts 30, Newton 22, Yellowhead Township (Kankakee County) 24, Staunton 104, Virden 64, Sandoval 42, Odin 37, Normal 31, Putnam 36, Cowden 39, Alto Pass precinct (Union County) 38, Alto Pass 22, Dongola 16, Chicago 868. Diphtheria 177, of which in Chicago 136; scarlet fever 39, of which in Chicago 27; smallpox 39, of which in Schram City 19, Elgin 12; influenza 3,004; poliomyelitis 1; meningitis 1 each Joliet and Chicago; gonorrhea 1 each Quincy, Mattoon, Moline, Belleville, 7 Chicago; syphilis 76, of which in Chicago 39.

Indiana.—Influenza 572; syphilis 27; gonorrhea 21; diphtheria Rush County 1, Marshall 2, Wabash 1, Randolph 1, Blackford 1, Tippecanoe 5, Vigo 1, Laporte 3, Posey 1.

² Week ended Dec. 19, 1918.

Iowa.—Cerebrospinal meningitis, Greene 2; chancroid, Council Bluffs 1, Des Moines 3, Sioux City 1; diphtheria, Britt 1, Council Bluffs 1, Des Moines 5; gonorrhea, Alton 1, Boone 2, Cambridge 1, Cedar Rapids 1, Council Bluffs 10, Des Moines 130, Dubuque 2, Granville 1, Lovilia 2, Mason City 3, Newton 3, Sioux City 21; scarlet fever, Des Moines 7, Eagle Grove 1; smallpox, Burlington 1, Cedar Rapids 4, Council Bluffs 9, Des Moines 1, Dubuque 3, Mason City 1, Ottumwa 1; syphilis, Des Moines 51, Dubuque 3, Greene 1, Remsen 1, Sioux City 2. In rural districts of following counties: Diphtheria, Mills 1; gonorrhea, Monroe 2, Polk 1, Story 1; mumps, Polk 1; scarlet fever, Adair 1, Keokuk 1, Linn 1, Mills 1, Sioux 1, Union 2, Wayne 1; smallpox, Mills 2; influenza for State 1,653.

Kansas.—Meningitis by cities: Andover 1, Centralia 1, Junction City (carriers) 2. State totals: Typhoid fever 4, smallpox 11, diphtheria 25, scarlet fever 15, influenza 4,139. Influenza by cities: Atchison 5, Coffeyville 72, Hutchinson 27, Independence 162, Kansas City 31, Lawrence 95, Parsons 16, Pittsburg 47, Topeka 70, Wichita 108. Many delayed reports in this week's summary.

Louisiana.—Influenza 3,497, typhoid fever 4, diphtheria 4, small-pox 7, meningitis 2.

Maine.—Cerebrospinal meningitis, Lewiston 3 deaths; chicken pox, York 1; diphtheria, Portland 1, Bangor 2, Waterville 3; gonorrhea, Bath 5, Lewiston 2, Greenville 2, East Millinocket 3, Phillips 1, Fairfield 1, Biddeford 1, Portland 1, Waterville 1; measles, Milo 1; scarlet fever, Bath 4, Waldoboro 4, Portland 24, Dexter 1, Waterville 2; smallpox, Wallgrass Plantation 2, Lewiston 2, Fort Kent 2, Van Buren 1; syphilis, Lewiston 2, Auburn 1, Augusta 1, Portland 9, Bangor 1, Freeport 1, Saco 1; tuberculosis, 8 cases; typhoid fever, Bath 2, Augusta 1; whooping cough, Gardiner 1; influenza, Greenwood 62, Waterville 707 (for December), Gray 33, Portland 170, Rockport 33, Franklin 62, Bath 118, Dover 32, Friendship 27, Waldoboro 67, Bangor 105, Bucksport 63, Dixfield 117, Emden 20, Lewiston 196 (for December), Prospect 26, Willimantic 40, Auburn 43, Bridgeton 28, Thomaston 17, Westbrook 60, Greenville 39, Skowhegan 16; scattered cases 27.

Massachusetts.—Unusual prevalence; 14,793 cases influenza.

Michigan.—Influenza, Bay City 66 cases, 5 deaths; Battle Creek 70 cases, 7 deaths; Flint 34 cases; Lansing 335 cases; Jackson 61 cases; Kalamazoo 40 cases; Grand Rapids 404 cases, 13 deaths; Pontiac 60 cases; Saginaw 103 cases, 9 deaths; Detroit 743 cases, 143 deaths; total for State 7,431 cases, 280 deaths.

Minnesota.—Smallpox, new foci: Anoka County, Columbia Heights Village 1; Noble County, Adrian Village 1; Renville County, Fairfax Village 1. One cerebrospinal meningitis reported since December 13. Syphilis 40, gonorrhea 66.

New Jersey.—Influenza, 3,605 cases; pneumonia, 355 cases. Reported from every county in the State. Diphtheria unusually prevalent in Salem City.

New York.—Outside of New York City: Diphtheria, 202, of which in Portland 16, Buffalo 55; measles, 102; scarlet fever, 116; smallpox, Buffalo 1; typhoid fever, 12, slight decrease; poliomyelitis, Saratoga Springs 1; pneumonia, 220; voluntary reports, syphilis 60, gonorrhea 9.

North Carolina.—Influenza by counties: Burke 150, Carteret 76, Chatham 2, Clay 4, Cleveland 250, Davidson 224, Durham 62, Gaston 45, Johnston 87, Montgomery 117, New Hanover 4, Pitt 276, Rockingham 50, Swain 200; cities reporting: Charlotte 8, Durham 90, Raleigh 80, Wilmington 22. Whooping cough 60, measles 27, diphtheria 23, scarlet fever 16, septic sore throat 3, smallpox 13, chicken pox 20, typhoid fever 13, meningitis 4, bacillary dysentery 3, broncho pneumonia 39, lobar pneumonia 19.

Ohio.—Scarlet fever, Pleasant Township (Franklin County) 6 cases; typhoid fever, Taylor Township (Union County) 5 cases.

Oregon.—Influenza, Portland 993 cases, 44 deaths; Benton 11, Clackamas 74, Columbia 27, Coos, 1 death; Deschutes 4, Douglas 40, Gilliam 4, Grant 28, and (1 death); Hood River 37, Jackson 4, Lincoln 3, Linn 37, Marion 205, Multnomah 72, Polk 2, Wasco 111, Washington 37.

Vermont.—Influenza, 1,245 cases from 9 towns.

Virginia.—One case smallpox Bedford County; 914 cases influenza. Washington.—No unusual outbreak of disease; influenza situation improving very slowly.

CEREBROSPINAL MENINGITIS.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 4, 1919.

Case		Cases.
Camp Greene zone, N. C	1 2	Camp Merritt zone, N. J. 1 Picric Acid Plant zone, Ga. 1

State Reports for November, 1918.

Place.	New cases reported.	Place.	New cases reported.
Alabama: Colbert County Talladega County. Total. Indiana: Grant County	1	Virginia—Continued. Pittsylvania County. Prince George County. Rockbridge County— Buena Vista. Scott County. Southampton County Wise County.	1 1 1
Virginia: Albemarle County Charlottesville Alleghany County Covington Buchanan County. Campbell County. Lee County	1 1 1 1	Total. West Virginia: Putnam County. Hancock County. Kanawha County. Total.	3

CEREBROSPINAL MENINGITIS—Continued.

City Reports for Week Ended Dec. 21, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Ashtabula, Ohio. Baltimore, Md. Boston, Mass Cambridge, Mass Charleston, W. Va. Chester, Pa. Chicago, Ill. Cleveland, Ohio. Columbia, S. C. Columbia, Ohio. Fall River, Mass. Fond du Lac, Wis. Haverhill, Mass. Holland, Mich.	3 1 2 1 1 1 1 1	1 1 1	Hudson, N. Y Kansas City, Mo. Memphis, Tenn Milwaukee, Wis Nashville, Tenn New Haven, Conn New Orleans, La New York, N. Y St. Louis, Mo. Salem, Mass San Antonio, Tex Tuscaloosa, Ala Wilmington, Del Winthrop, Mass	1 1 5 5	1

CHANCROID.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 4, 1919.

Cas	3 8 8.	Cas	
Camp Greene zone, N. C	3	Portsmouth and Norfolk County health district,	
Camp Joseph E. Johnston zone, Fla	3	Va	1
Camp Logan zone, Tex	2	Camp Zachary Taylor zone, Ky. and Ind	1
Camp Pike zone, Ark	1	Camp Travis zone, Tex	3

DIPHTHERIA.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 4, 1919.

Cas	es.	. Ca				
Camp Bowie zone, Tex	1	Camp Merritt zone, N. J	1			
Charleston sanitary district, S. C	2	Fort Oglethorpe zone, Ga. and Tenn	1			
Camp Dix zone, N. J	2	Camp Pike zone, Ark	1			
Camp Dodge zone, Iowa	4	Portsmouth and Norfolk County health district,				
Camp Eberts zone, Ark	1	Va	3			
Gas and Flame School zone, Ga. and Ala	1	Camp Sherman zone, Ohio	1			
Gulfport health district, Miss	1	Camp Zachary Taylor zone, Ky. and Ind	7			
Fort Leavenworth zone, Kans	2	Camp Wheeler zone, Ga	1			
Camp Lee zone. Va	2					

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 59.

ERYSIPELAS.

City Reports for Week Ended Dec. 21, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Chicago, Ill Cincinnati, Ohio. Dallas, Tex Denver, Colo Detroit, Mich East Orange, N. J Highland Park, Mich Los Angeles, Cal Melrose, Mass. Milwaukee, Wis Minneapolis, Minn	2 1 5 1 2 3 1 1		Newark, N. J. New Haven, Conn. New Orleans, La. New York, N. Y. Oswego, N. Y. Passaic, N. J. Philadelphia, Pa. Providence, R. I. St. Louis, Mo. Tuscaloosa, Ala. Wichita, Kans.	1 1 1 6	1 3

GONORRHEA.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 4, 1919.

c	ases.	ı	ases.
Camp Beaurogard zone, La	4	Camp MacArthur zone, Tex	2
Camp Bowie zone, Tex	5	Camp McClellan zone, Ala	2
Camp Doniphan zone, Okla	4	Camp Merritt zone, N. J	2
Camp Eberts zone, Ark	1	Camp Pike zone, Ark	20
Camp Funston zone, Kans	1	Portsmouth and Norfolk County health dis-	
Camp Gordon zone, Ga	40	trict, Va	6
Camp Greene zone, N. C.	7	Portsmouth-Kittery sanitary district, N. H.	
Gulfport health district, Miss	6	and Me	2
Camp Hancock zone, Ga	. 2	Camp Sheridan zone, Ala	9
Camp Jackson zone, S. C	1	Camp Sherman zone, Ohio	4
Camp Joseph E. Johnston zone, Fla	21	Camp Zachary Taylor zone, Ky. and Ind	30
Fort Leavenworth zone, Kans	1	Tidewater health district, Va	1
Camp Logan zone, Tex	8	Camp Travis zone, Tex	19

INFLUENZA.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 4, 1919.

	Cases.	i	ases.
Camp Beauregard zone, La	. 174	Camp Logan zone, Tex	5
Camp Bowie zone, Tex	. 9	Camp MacArthur zone, Tex	2
Bremerton zone, Wash	. 1	Camp McClellan zone, Ala	6
Charleston sanitary district, S. C	106	Camp Merritt zone, N. J	105
Camp Devens zone, Mass	. 71	Fort Oglethorpe zone, Ga. and Tenn	61
Camp Dix zone, N. J	25	Pensacola sanitary district, Fla	46
Camp Dodge zone, Iowa	. 13	Picric Acid Plant zone, Ga	10
Camp Doniphan zone, Okla	. 12	Camp Pike zone, Ark	132
Camp Eberts zone, Ark	. 88	Camp Polk zone, N. C.	249
Camp Funston zone, Kans	. 36	Portsmouth and Norfolk County health dis-	
Gas and Flame School zone, Ga. and Ala	89	trict, Va	155
Gerstner Field zone, La	82	Portsmouth-Kittery sanitary district, N. H.	
Camp Gordon zone, Ga	52	and Me	58
Camp Greene zone, N. C.	62	Camp Sevier zone, S. C.	141
Gulfport health district, Miss	585	Camp Sherman zone, Ohio	26
Camp Hancock zone, Ga	188	Camp Zachary Taylor zone, Ky. and Ind	237
Camp Humphreys zone, Va	16	Tidewater health district, Va	151
Camp Jackson zone, S. C	45	Camp Travis zone, Tex	106
Camp Joseph E. Johnston zone, Fla	15	Vancouver zone, Wash	41
Fort Leavenworth zone, Kans	27	Camp Wadsworth zone, S. C.	38
Camp Lee zone, Va	465	Camp Wheeler zone, Ga	27
Camp Lewis zone, Wash		Wilmington sanitary district, N. C	34

LEPROSY.

City Reports for Week Ended Dec. 21, 1918.

Two cases of leprosy were reported during the week ended December 21, 1918; one at Los Angeles, Cal., and one at New Orleans, La.

MALARIA.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 4, 1919.

Cases.		Cas	200
Camp Eberts zone, Ark	1 4	Camp Pike zone. Ark	2

MALARIA—Continued.

State Reports for November, 1918.

Places.	New cases reported.	Places.	New cases reported.
Alabama: Bullock County. Choctaw County. Colbert County. Greene County. Jefferson County Lamar County Monible County Monroe County Monroe County Tuscaloosa County Total. Virginla: Accomac County. Brunswick County. Lawrenceville Caroline County Charles City County Chesterfield County Chesterfield County Cumberland County Dunwiddie County Essex County.	reported. 1 1 8 2 2 50 2 1 1 14 83 9 1 5 1 2 1 6	Virginia—Continued. Hanover County. Isle of Wight County. James City County. Toano. Middlesex County. Now Kent County. Northampton County. Northumberland County. Nottoway County. Prince Edward County. Prince Edward County. Princess Anne County. Princess Anne County. Prince George County. Prince William County. Prince William County. Southampton County. Southampton County. Southampton County. Sussex County. Stony Creek. Warwick County. Westmoreland County.	reported. 1 16 6 11 4 6 5 5 3 1 1 5 7 20 4 3 5 1 8 8
Fluvanna CountyGreensville County Emporia	1 13	Total	
Halifax County— South Boston	9		

City Reports for Week Ended Dec. 21, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
McAlester, Okla Meridian, Miss Newark, N. J	10 2 1		Tuscaloosa, Ala	2 1	i

MEASLES.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 4, 1919.

Cas	es.	· · Ca	ses.
Camp Beauregard zone, La	1	Camp Pike zone, Ark	12
Camp Bowie zone, Tex	1	Camp Polk zone, N. C	1
Camp Funston zone, Kans	1	Portsmouth and Norfolk County health district,	
Gas and Flame School zone, Ga. and Ala	5	Va	2
Camp Gordon zone, Ga	1	Camp Zachary Taylor zone, Ky. and Ind	3
Camp Jackson zone, S. C	1	Tidewater health district, Va	5
Camp Joseph E. Johnston zone, Fla	43	Camp Travis zone, Tex	1
Camp Lee zone, Va	4	Camp Wadsworth zone, S. C	1
Fort Oglethorpe zone, Ga. and Tenn	2	Camp Wheeler zone, Ga	4
Picric Acid Plant zone, Ga	10	Wilmington sanitary district, N. C	1

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 59.

PELLAGRA.

State Reports for November, 1918.

Place.	New cases reported.	Place.	New cases reported.
Alabama: Bibb County. Butler County. Chambers County. Charke County. Clarke County. Colbert County. Dallas County. Hale County. Jackson County. Lawrence County. Limestome County. Macon County. Mobile County. Mobile County. Shelby County. Talladega County. Talladega County. Tallapoosa County. Tuscaloosa County. Total.	1 1 2 1 1 1 2 3 12 1 1 1 10 2 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Kansas: Cowley County— Atlanta. Montgomery County— Independence. Total. Virginia: Albemarle County Dinwiddle County Powhatan County Washington County Total. West Virginia: Kanawha County	1 2 1 1 1 1 3

City Reports for Week Ended Dec. 21, 1918. •

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Atlanta, Ga Austin, Tex Charleston, S. C. Danville, Va	1	3 1 1	Fort Dodge, Iowa Long Beach, Cal Wilmington, N. C	1	2 1 1

PNEUMONIA.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 4, 1919.

Ca	205 .		ses.
Camp Bowie zone, Tex	36	Camp Merritt zone, N. J	9
Camp Devens zone, Mass	3	Pensacola sanitary district, Fla	1
Camp Doniphan zone, Okla	1	Picric Acid Plant zone, Ga	1
Camp Eberts zone, Ark	1	Camp Pike zone, Ark	11
Camp Funston zone, Kans	3	Camp Polk zone, N. C.	1
Gas and Flame School zone, Ga. and Ala	7	Portsmouth and Norfolk County health district,	
Gerstner Field zone, La	5	Va	3
Camp Gordon zone, Ga	3	Camp Sevier zone, S. C.	4
Gulfport health district, Miss	30	Camp Zachary Taylor zone, Ky. and Ind	1
Camp Humphreys zone, Va	1	Tidewater health district, Va	1
Camp Jackson zone, S. C	3	Camp Travis zone, Tex	8
Camp Joseph E. Johnston zone, Fla	2	Camp Upton zone, N. Y	1
Camp Lee zone, Va	19	Camp Wadsworth zone, S. C.	1
Camp MacArthur zone; Tex	3	Wilmington sanitary district, N. C	2
Camp McClellan zone, Ala	1		

PNEUMONIA—Continued.

City Reports for Week Ended Dec. 21, 1913.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Abilene, Tex	4		Lynn, Mass	10	6
Abilene, TexAdrian, Mich	1		McAlester, Okla	8	2
Anniston, Ala	8		Malden, Mass	7	l ĩ
Arlington, Mass	1	1	Manchester, N. H	1	1
Atlantic City N I	2	7	Manistee, Mich	2	l ī
Attleboro, Mass	2 6	1	Mansfield, Ohio	2	
Auburn, N. Y	6	1	Marion, Ohio	4	
Baltimore, Md	25	35	Medford, Mass	1	1
Battle Creek, Mich	6			2	1
Beacon, N. Y Belleville, N. J	2 2 1 1		Meridian, Miss. Middletown, N. Y. Montclair, N. J. Montgomery, Ala. Morgantown, W. Va. Mount Vernen, N. Y. Muncie Ind.	. 1	l
Belleville, N. J	2		Middletown, N. Y	1	3
Berkeley, Cal	1		Montclair, N. J	2	5
Beverly, Mass	1	1	Montgomery, Ala	3	7
Binghamton, N. Y	6		Morgantown, W. Va	2	1
Bloomfield, N. J	2	1	Mount Vernen, N. Y	7	
Bioomieid, N. Boston, Mass. Brunswick, Ga. Cambridge, Mass. Centralia, Ill. Chelsea, Mass.	78	33		3	2
Brunswick, Ga	7	4	II Natick Mass	13	10
Cambridge, Mass	.4	6	Newark, N. J	126	31
Centralia, III	25	5	New Bedferd, Mass	9	2
Uneisea, Mass	2	4	Newark, N. J. New Bedford, Mass. New Britain, Conn.	1	2 7
Unicago, III	916	159	Newcastle, Ind	4	' 1
Chicago, Ill. Chillicothe, Ohio.	1	73	New London, Conn	2	
Cieveiand, Onio	89		New York, N. Y.	1	1
Coneyvine, Kaus	1	1	New York, N. Y	485	318
Columbia, S. C.			North Adams, Mass	1	1
Columbus, Ga Concord, N. H	10	4	Northampten, Mass	2	2
Concord, N. H	2 2		North Tonawanda, N. Y	4	
Corning, N. Y	2	2	Norwich Conn. Norwood, Ohio. Ossining, N. Y. Palestine, Tex. Parkersburg, W. Va. Passaic, N. J.	1	1
Cranston, R. I		10	Norwood, Ohio	3	4
Dayton, Ohio	11 73		Ossining, N. Y	2	
Dubyth Minn		95 3	Palestine, Tex	16	3
Foot Owner N T	5 7	10	Parkersburg, W. Va	1	3 1 3
Duluth, Minn	5	8	Passaic, N. J	10	
Francha Mich	20	8	I miaudipilia, I a	24	90
Escanaba, Mich Everett, Wash. Fall River, Mass. Findlay, Ohio Fint, Mich. Fort Worth, Tex	8	°	Piqua, Ohio	. 4	2
Fall Divar Mass	5	2	Piqua, Onio Pontiac, Mich Port Chester, N. Y Portsmouth, N. H Quincy, Ill Richmond, Va Riverside, Cal Roanoke, Va	5	1
Findley Ohio	ĭ	ĩ	Port Chester, N. Y	3	. 2
Flint Mich	7	18	Portsmouth, N. H	2	• • • • • • • • • • • • • • • • • • • •
Fort Worth Tex	70	24	Quincy, Ill	8	7
	ď		Richmond, Va	5	17
	7	2	Riverside, Cal	2	6
Grand Rapids, Mich Green Bay, Wis Greenwich, Conn	63	14	Roanoke, Va	2	
Green Bay, Wis	ĩ		Rochester, N. Y	37	11
Greenwich, Conn	ī	5	Rome, N. Y	6	•••••
Hackensack, N. J	6	4	Saginaw, Mich	1	27
Harrison, N. J	ĭ		Saginaw, Mich Salem, Mass San Antonio, Tex	7	1
Haverhill, Mass	15	6	San Antonio, Tex	30	21
Helena, Ark	4	4	San Diego, Cal. San Diego, Cal. Sandusky, Ohio. Sault Ste. Marie, Mich. Schenectady, N. Y. Sioux Falls, S. Dak. Somerville, Mass.	1	6
Highland Park Mich.	21	3	Sandusky, Ohio	21	12
Hoquiam, Wash	9		Sault Ste. Marie, Mich	. 1	•••••
Independence, Mo	5	3	Schenectady, N. Y	6	1
Ithogo N V	2		Sioux Falls, S. Dak	3	1
Jackson, Mich	9	6	Somerville, Mass	3	3
Jackson, Mich	4	5		35	21
Jersey City, N. J.	9		Toledo, Ohio	3	15
Kalamazoo, Mich	28	14	Trenton, N. J	2 3	3
Kansasuliv, Kans	11		Waco, Tex	3	3
Kansas City Mo	38	43	Watertown, Mass	2	· · · · · · · · · · · · · · · · · · ·
Kearny, N. J.	9	2	Westfield, Mass	3 3 1	3
Lackawanna, N. Y	9	5	West Orange, N. J	3	2
Kearny, N. J	2	2	Wichita, Kans		•••••
Leavenworth, Kans	ī	2 5 2 8	Wilmington, Del	5	5
Lincoln, Nebr	3	3	Wilmington, N.C	2	2
Little Rock, Ark	16	5	Wilmington, Del	25	•••••••••••••••••••••••••••••••••••••••
Los Angeles, Cal	13	11	Yonkers, N. 1	4	1
Louisville, Ky	4 2	38 2	Youngstown, Ohio	1 1	1

POLIOMYELITIS (INFANTILE PARALYSIS).

State Reports for November, 1918.

Place.	New cases reported.	Place.	New cases reported.
Alabama: Limestone County Indiana: Marion County Kansas: Geary County— Junction City Virginia: James City County Lee County	1	Virginia—Continued. Princess Anne County. Shenandoah County. Tazewell County. Total. West Virginia: Jackson County. Kanawha County. Total.	5

City Reports for Week Ended Dec. 21, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Nashville, Tenn New Orleans, La	1	1	Newton, MassPhiladelphia, Pa	1	1

RABIES IN ANIMALS.

City Reports for Week Ended Dec. 21, 1918.

During the week ended December 21, 1918, 2 cases of rabies in animals were reported at Memphis, Tenn., and 3 cases at San Antonio, Tex.

RABIES IN MAN.

City Report for Week Ended Dec. 21, 1918.

During the week ended December 21, 1918, 1 case and 1 death from rabies were reported at San Antonio, Tex.

SCARLET FEVER.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 4, 1919.

Cases	Cases.
Bremerton zone, Wash 2	Fort Oglethorpe zone, Ga. and Tenn 1
Camp Devens zone, Mass	Camp Pike sone, Ark 1
Camp Dodge zone, Iowa 5	Camp Polk zone, N. C
Camp Funston zone, Kans	Camp Sheridan zone, Ala 1
Camp Gordon zone, Ga 2	Camp Sherman zone, Ohio 1
Camp Greene zone, N. C	Camp Zachary Taylor zone, Ky. and Ind 1
Camp Humphreys zone, Va 1	Tidewater health district, Va 1
Camp Joseph E. Johnston zone, Fla 1	Camp Wheeler zone, Ga
Camp Merritt zoffe, N. J 1	Wilmington sanitary district, N. C 1

See also Diphtheria, measles, scarlet fever, and tuberculosis, p. 59.

SMALLPOX.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 4, 1919.

Cas	es.	(Ca:	ses.
Camp Dodge zone, Iowa	1	Camp Gordon zone, Ga	19
Gas and Flame School zone, Ga. and Ala	4	Camp Polk zone, N. C.	2
Gerstner Field zone, La	15		

SMALLPOX—Continued.

Kansas Report for November, 1918—Vaccination Histories.

			. v	accination h	istory of case	39.
Place.	New cases reported.	Deaths.	Number vaccinated within 7 years pre- ceding attack.	Number last vacci- nated more than 7 years preceding attack.		Vaccination history not obtained or uncertain.
Kansas:						
Anderson County—	l	1	1		.	-
Welda (R. D.)	1				1	
Comanche County—		İ		1		
Wilmore (R. D.)	6				6	
Cowley County— Winfield	2	ł	· '	i	2	ĺ
Crawford County-	2	ļ				·····
Pittsburg	4		1		4	l
Douglas County—	· ·				•	1
Lawrence	2	l			2	
Franklin County-						
Richmond	2				2	
Jewell County—	_			1		1
Esbon (R. D.) Sedgwick County—	1				1	••••••••
Wichita	12				12	
Seward County—	12				12	
Liberal	2				2	
Sherman County-	_					
Goodland	1				1	
Stanton County—					2	
Johnson (R. D.)	2				2	· · · · · · · · · · · · · · · · · · ·
Sumner County—	10				10	
South Haven (R. D.) Woodson County—	10		• • • • • • • • • • • • • • • • • • • •		10	•••••••••••••••••••••••••••••••••••••••
Neosho Falls	1			1	1	
Wyandotte County—	- 1				•	
Kansas City	2				2	
•						
Total	48				48	• • • • • • • • • • • • • • • • • • • •

State Reports for November, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alabama:			Virginia:		
Bibb County	3		Alleghany County	11	1
Colbert County	1 4		Covington		
Jefferson County	7		Bedford County	ĩ	
Lauderdale County	7		Campbell County	13	
Tag County	3		Campbell County	12	
Lee County			Carroll County		
Limestone County	1	1	Craig County		
Mobile County	1		Grayson County	0	
Washington County	4		Halifax County	1	
			Isle of Wight County	1	
Total	22	1	King William County	3	
			Norfolk County	2	
Indiana:			Pittsylvania County	10	
Allen County	5		Prince George County	1	l
Cass County	ဲ့ ခွဲ		Rockingham County	2	
Clark County	. 2	1	Harrisonburg	ī	
Clinton County	i		Tazewell County—	-	
Dearborn County		i	Pocahontas	1	
Delaware County	น้		1 ocanontas		
	9		Total	76	
Fountain County			10tal	10	
Kosciusko County	1				
La Porte County			West Virginia:	_	
Marion County	2		Berkeley County	1	
Marshall County	9		Kanawha County	1	
Miami County	2		McDowell County	7	
Parke County	4		Putnam County	1	
Porter County			Raleigh County	2	
Rush County	41		Randolph County	5	
Shelby County	ï		Roane County	2	
St. Joseph County			Wyoming County	12	
Sullivan County			Wyoming country		
			Total	31	
Tippecanoe County	7		10tal	91	
Vigo County					
Wayne County					
Wells County	6		Į l		
Total	101				
10181	191		1		

SMALLPOX-Continued.

City Reports for Week Ended Dec. 21, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Adrian, Mich	17		Memphis, Tenn	1	
Atlanta, Ga	13		Minneapolis, Minn	6	
Beaumont, Tex	2		Muncie, Ind	. 1	
Cincinnati, Ohio	7		Nashville, Tenn Newcastle, Ind.	1	
Columbus, Ga	4 3		North Yakima, Wash Ogden, Utah	6 7	
Council Bluffs, Iowa	4		Oklahoma City, Okla	2	ļ
Denver, Colo	20 1		Oswego, N. Y	1 2	
Des Moines, Iowa	3 18		Penris III	2	
Elgin, Ill	1 2		Portland, Oreg	î	
Grand Rapids, Mich	3		St. Louis, Mo	2	
Kansas City, Kans	2		Salt Lake City, Utah Sioux Falls, S. Dak	3	
Kansas City, Mo Knoxville, Tenn	1		South Bend, Ind	1	
incoln, Nebr	1 4		Tacoma, Wash	7	
Los Angeles, Cal	5		Winston-Salem, N. C Zanesville, Ohio	2 4	
Marshalltown, Iowa	4		,	- 1	1

SYPHILIS.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 4, 1919.

	Ca	ses.	Cas	ses.
	Camp Bowie zone, Tex	1	Camp Pike zone, Ark	14
	Camp Gordon zone, Ga	21	Portsmouth and Norfolk County health dis-	
	Camp Greene zone, N. C.	8	trict, Va	3
٠	Camp Hancock sone, Ga	19	Camp Sheridan zone, Ala	5
	Camp Jackson zone, S. C.	15	Camp Sherman zone, Ohio	1
	Camp Joseph E. Johnston zone, Fla	35	Camp Zachary Taylor zone, Ky. and Ind	25
	Camp Logan zone, Tex	32	Tidewater health district, Va	1
	Camp MacArthur zone, Tex	1	Camp Travis zone, Tex	5
	Camp McClellan zone, Ala	3	•	

TETANUS.

City Reports for Week Ended Dec. 21, 1918.

During the week ended December 21, 1918, 1 death from tetanus was reported at Malden, Mass., and 1 case was reported at Ossining, N. Y.

TUBERCULOSIS.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 4, 1919.

Cas	es.	· Ca	ses.
Camp Bowie zone, Tex	3	Camp Polk zone, N. C.	2
Gas and Flame School zone, Ga. and Ala	1	Camp Sevier zone, S. C	1
Camp Gordon zone, Ga	1	Camp Sheridan zone, Ala	1
Camp Joseph E. Johnston zone, Fla	4	Camp Zachary Taylor zone, Ky. and Ind	7
Camp Lee zone, Va	3	Tidewater health district, Va	2
Camp MacArthur zone, Tex	3	Camp Travis zone, Tex	7
Pensacola sanitary district, Fla	1	Wilmington sanitary district, N. C	2

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 59.

TYPHOID FEVER.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 4, 1919.

Cases.	. Cases.
Camp Jackson zone, S. C	Camp Travis zone, Tex. 2
Camp Polk zone, N. C	Wilmington sanitary district, N. C 3
Camp Sherman zone, Ohio 1	- ,

State Reports for November, 1918.

Place.	New cases reported.	Place.	New-case reported.
Alabama:		Kansas—Continued.	
Barbour County	4	Chautauqua County—	
Bibb County. Bullock County Colbert County	1	Sedan	1 1
Bullock County	2	a Cherokee County	1
Colbert County	2 2 1 1 3 4 3 1	Baxter Springs	1
	1	Columbus (R. D.)	1
Henry County Houston County Jefferson County	1 1	Colley County-	
Houston County	3	Lebo	1
Jefferson County	4	Comanche County—	-87 12
Langer County	3	Coldwater (R. D.)	. 1
Lauderdale County	1 1	Crawford County—	
Limestone County	1 1	Pittsburg	
Marshall County	1	Dickinson County—	
Monroe County	1 5 1 1 2 7	Herington	:
Montgomery County	5	Elk County—	,
Pickens County	1	Moline (R. D.)	. 1
Pike County	1	Finney County—	
Randolph County	2	Garden City	1
Shelby County	7 1	Franklin County—	
St. Clair County	1	Ottawa (R. D.)	1
Talladega County	3	Gove County—	
Tuscaloosa County	1	_ Quinter	1
Wilcox County	1	Harper County—	
Pike County Pike County Randolph County Shelby County St. Chair County Talladega County Tuscaloosa County Wilcox County Wilcox County Winston County	3	_ Attica	1
		Harvey County-	
Total	50		5
rizona:		Labette County— Chetopa (R. D. 1). Mound Valley	
Mariaana Countr-	li	Chetopa (R. D. 1)	2
Phoenix	1	Mound Valley	1
		Parsons	1
ndiana:	- 11	Leavenworth County—	
Allen County	8	Bonner Springs (R. D.)	1
Allen County Bartholomew County Cass County Clark County	1	Linn County—	_
Cass County	4	La Cygne (R. D.)	3
Clay County	13	Marshall County—	
Daraham County	1	Irving	. 1
Debalb County	- 1	McPherson County— .	
Dearborn County Dekalb County Floyd County	1 1	Vacda Country	1
Fountain County	÷ []	Meade County—	
Grant County.	5	Fowler.	1
Cromo Country	1 2 1 2 3 1	Miami County— Osawatomie (R. D.)	2
Greene County	5	Montgomery County—	4
Huntington County	2	Conor.	2
Jay County.	ill	Coffee ville (R. D. 1)	4
Jennings County	i	Caney	12
Tohnson County	āll	Туго	1
Kosciusko County Lawrence County Marion County.	4 2 1	Nemaha County—	•
Lawrence County	ī II	Kelley	1
Marion County	î	KelleyPawnee County—	-
Putnam County	î	Larned	1
St. Joseph County	ī	Reno County—	•
Marion County Putam County St. Joseph County Switzerland County Wabash County Washington County White County	3 ∦	Hutchincon	1
Wahash County	5	Republic County— Belleville	-
Washington County	2	Belleville	1
White County	1		-
Metal .		Culver	1
Total	65	Culver Salina Cunto	ī
ansas:		Seagwick County—	-
Anderson County—	11	Valley Center	1
Garnett	. 1	Valley Center	3
Barton County-	· - #	Shawnee County—	•
Hoisington	1	Topeka (R. D.)	4
Rourbon County-	-	Smith County—	•
Mapleton (R. D.)	3	Lebanon	1
Mapleton (R. D.) Xenia	ĭ	Thomas County—	-
Rufler County-	- 1	Levant (R. D.)	1
7914 4 - '(P) TO 13	- 11	777 7 14 0	-
Eldorado (R. D. 1)	7	Wichita County— Marienthal (R. D.)	

TYPHOID FEVER—Continued.

State Reports for November, 1918—Continued.

Place.	New cases reported.	Place.	New cases réported.
Kansas—Continued.		Virginia—Continued.	
Wilson County—		Mecklenburg County	1
Buffalo	1	Middlesex County	i ī
Fredonia (R. D.)		Montgomery County—	
New Albany	î	Radford	1
Wyandotte County-	•	Nansemond County—	-
Kansas City	2	Suffolk	1 1
Kansas Olty		Norfolk County	1 7
Total	88	Northumberland County	1 -
		Powhatan County	
Nevada:		Princess Anne County	1 1
Clark County	1	Prince Edward County	1 5
Humboldt County	1	Prince Edward Country	3
Nye County	4	Prince George County	
Washoe County	2	Pulaski County	1 1
White Pine County	2	Richmond County	1
,, 1110 - 1110 county control		Rockbridge County—	_
Total	10	Buena Vista	1
		Rockingham County	1
Virginia:		Russell County	1
Accomac County	2	Castlewood	1
Albemarle County— Charlottesville		Shenandoah County	2 2
	2	Southampton County	2
Alleghany County	1	Surry County	1 1
Clifton Forge	4	Tazewell County	l ī
Amherst County	1 1	Warwick County	2
Appomattox County	3	Washington County	5 3
Augusta County	2	Meadow View	Š
Bedford County	1	Westmoreland County	ľi
Bedford	3	Wise County	
Campbell County—	- 1	Wythe County	1 4
Lynchburg	2	York County	ì
Carroll County	2	TOTA County	
Clarke County	ī	Total	96
Dickenson County.	2	I Vtal	
Elizabeth City County—	- 1	West Virginia:	
Phoebus	1	Berkeley County	1
Floyd County	il	Jackson County	3
Giles County	1	Jackson County	17
Common Country	4	Kanawha County	17
Grayson County	1	Monongalia County	2
Handier County	1 1	Ohio County	
Henrico County	3	Pendleton County	4
Richmond	2	Putnam County	4
Henry County	2	Raleigh County	2
Lee County—	_ {	Randolph County	40
Dryden	1	Wood County	2
Louisa County	1		
Mathews County	1	Total	76

City Reports for Week Ended Dec. 21, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Abilane, Tex	1		Minneapolis, Minn	1	
Altoona, Pa	1		Moline, Ill	13	9
Baltimore, Md	8	1	Natick, Mass	1	l
Boston, Mass	2	l ī	Newark, N. J	ī	
Buffalo, N. Y.	2		New Haven, Conn	3	1
Charleston, W. Va		1	Newton, Mass	ĭ	
Chester, Pa			New York, N. Y.	Ŕ	
Chicago, Ill	1 4	i	Orange, N. J.	1	'
Chillicothe, Ohio	l î	ļ	Philadelphia, Pa	2	
Cleveland, Ohio	1 1	3	Pittsburgh, Pa	í	-
Columbia, S. C.	1 7		Portland, Oreg	;	
Dallas, Tex			Rahway, N. J.	÷ .	
Denver, Colo		,			
Detroit, Mich		1 1	Reading, Pa	2	
Elgin, Ill			Sacramento, Cal	• • • • • • • • •	
Elmira, N. Y.		‡			
Englewood, N. J.			St. Louis, Mo		
Englewood, N. J	3		Shamokin, Pa	1	• • • • • • • • • •
Erie, Pa		• • • • • • • • • • • • • • • • • • • •	Superior, Wis		1
Fall River, Mass	1	1	Syracuse, N. Y		
Fort Worth, Tex			Toledo, Ohio	1	
Houston, Tex	3		Trenton, N. J.	1	· · · · · · · · · · ·
Jersev Citv, N. J	2		Waco, Tex	3	1
Los Angeles, Cal	1		Wichita, Kans	2	
McAlester, Okla	3		Wilkinsburg, Pa	1	
Manistee, Mich		1	wilmington, N. C	4	· · · · · · · · · · · · · · ·
Memphis, Tenn		1	Winston-Salem, N. C	1	
Meridian, Miss	1		, , , , , , , , , , , , , , , , , , , ,	_	

State Reports for November, 1918.

	Cases reported.			Cases reported.				
State.	Diph- theria.	Measles.	Scarlet fever.	State.	Diph- theria.	Measles.	Scarlet fever.	
AlabamaArizona. Indiana Kansas	56 2 118	51 44 46	25 3 163 90	Nevada Virginia West Virginia	1 199 41	46	49 24	

City Reports for Week Ended Dec. 21, 1918.

	Popula- tion as of July 1,1917	Total deaths	Diph	theria.	Mea	sles.		riet er.		ber- osis.
City.	(estimated by U.S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Abilene, Tex	14,954	4	2		1		2		1	
Adams, Mass	14, 406	1	· · · · · <u>·</u> ·						J <u>-</u> -	
Akron, Ohio	93,604	42	2		1		2	· • • • • •	5	
Alameda, Cal Allentown, Pa	28, 433 65, 109	12	1 8			•••••	1	· · · · · ·	2	
Altoona, Pa.	59, 712	• • • • • • • •	12				2	• • • • • •	_	
Anderson, Ind	24, 230	13	l							i
Ann Arbor, Mich	15,041	10								
Appleton, WisArlington, Mass	18,005	4							•••••	
Ariington, Mass	13,073	10 4] <u> </u>						1
Asbury Park, N. J	14, 629 22, 008	10						•••••	1	····i
Atlanta, Ga	196, 144	80	3				8	1	2	•
Atlantic City, N. J.	59, 515	24					ĭl		3	····i
Attleboro, Mass	19, 776	8								
Auburn, N. Y	37, 823	13								1
Austin, Tex.	35, 612	25					;;	•••••	4	.4
Baltimore, MdBarre, Vt.	594, 637 12, 40 ▶	220	20	1	7				27	15
Battle Creek, Mich	30, 159	4	6					• • • • • •		
Bayonne, N. J.	72, 204		5						2	
Bayonne, N. J Beacon, N. Y	11,674	3]					
Beaumont, Tex	28, 851	15	1]		1	3
Bedford, Ind	10,613	5								1
Beloit, Wis	18,547	11			2				2	• • • • •
Benton Harbor, Mich Berkeley, Cal	. 11,099 60,427	5 15	2 2						···i	• • • • • •
Beverly, Mass.	22 128	7	3				····i		- 1	• • • • • •
Biddeford, Me	22, 128 17, 760	2 1					1			i
Billings, Mont Binghamton, N. Y	15, 123]		1		1]	
Binghamton, N. Y	54, 864	21	1				1		1	1
Bloomfield, N. J	19,013	2	3			· • • • • •			1.	1
Boise, Idaho Boston, Mass	35, 951 767, 813	11 334	49	7	10		31		59	27
Brazil, Ind.	10, 472	4	1	1	10		31	• • • • • • •	35	21
Bridgeport, Conn	124, 724	45	3		1		1		3	4
Bristol, Conn	16, 318	5					ī].			
Brookline, Mass	33, 526	8	1	-] .		1].			2
Brunswick, Ga	10,984	. 8			10 }.		::- -		3	.1
Buffalo, N. Y. Burlington, Iowa	475, 781 25, 144	175 17	53	5	14 .		11 .		5	11
Burlington, Vt.	21, 802	15							- 1	
Butte. Mont.	44,057				i 1.		2			
Butte, Mont. Cairo, Ill.	15,995	10	1] .			1
Cambridge, Mass	114, 293	54	3		3].		2 .		1	6
Carbondale, Pa	19.597		1	.		-			3 .	• • • • •
Carnegie, Pa	11,963	7		•••••	1 .				••••• -	
Charleston & C	15, 052 61, 041	30	2	••••• •					2	
Charleston, W. Va.	31,060	16	i				i .		1	2
Charlotte, N. C.	40, 759	31			i.					ĩ
Cheisea, mass	48, 405].						1].		1	1
Chester, Pa	41.857	-:-::	2		1.				1 .	
Chicago, Ill.	2, 547, 201	1,110	149	9	55	•••••	29 .		245	65
Chicopee, Mass	29, 950	7 1	5 J	1 1.	! .		! .	1.	!	1

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Mea	ısles.		rlet ver.		ber- osis.
City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Chillicothe, Ohio	15.625 414 248	1 269	2 19	₁	7 3		1 3	i	12	_{ii}
Cleveland, Ohio	414. 248 692. 259	425	29	2	3		1Ŏ	î	28	20
Clinton, Iowa	27,678 1 13,075	6	1				····i	• • • • • •		
Clinton, Mass. Coffeyville, Kans. Cohoes, N. Y.	18, 331 25, 292						ī			2
Cohoes, N. Y.	25, 292	8	1				4			
Colorado Springs, Colo	38, 965 35, 165	28			3					4
Columbus, Ga Columbus, Ohio Concord, N. H Connellsville, Pa	26,306	9	1		5				i	i
Columbus, Ohio	220, 135	114			1		4		6	9
Connellsville Pa	22, 858 15, 876	13					····i		1 2	
Corpus Christi, Tex. Cortland, N. Y. Council Bluffs, Iowa. Covington Ky	10,789	3	i						l	
Cortland, N. Y	13.321	6							2	1
Covington, Ky	31, 838 59, 623	24 35	2				1			
Cranston, R. I	26, 773	5	ļ <u>.</u>				1			l
Dallas, Tex	129,738	82 15							1 1	7
Danville. Va	32, 969 20, 183	13							36	1
Council Biuns, Iowa Covington, Ky Cranston, R. I Dallas, Tex Danville, Ill. Danville, Va Dayton, Ohio Denver, Colo. Des Moines Lova	128.939	76	1							
Denver, Colo	268. 439	233	3		1		6 2			28
Des Moines, Iowa Detroit, Mich Dover, N. H	104 052 619, 648	401	90	15	3		45	1	19	24
Dover, N. H.	13, 276	3							ļ <u>.</u>	
Du Bois, Pa Duluth, Minn	14, 994 97, 077	32	2 15			• • • • • •		••••	•••••	2
Durham, N. C.	26.160	5	13							2
Durham, N. C. Fast Chicago, Ind.	30, 286	12								
East Ampton, Mass. East Orange, N. J. East Providence, R. I. Eau Clare, Wis.	10, 656 43, 761	12			• • • • • •	• • • • • •	····i	• • • • • •	1	
East Providence, R. I.	18, 485	12	2					•••••		
Eau Clare, Wis	18,887				1		2			
Elgin, III	28 562 38 272	9 19						•••••	2	
El Paso, Tex.	69.149	49	4	i	16					7
Eau Clare, Wis. Elgin, Ill. Elmira, N. Y El Paso, Tex Elyria, Ohio Englewood, N. J Eric, Pa. Escanaba, Mich	19.503	14								
Eric. Pa	12,603 76,592	3	·····2		···i			•••••	·····2	
Escanaba, Mich Exanston, Ill. Everett, Mass Everett, Wash Fairmont, W. Va	15, 854	12								····i
Evanston, Ill.	29.304	19	· · · · <u>·</u> ·		2		2			i
Everett Wash	40. 160 37, 205	7	1					•••••	2	1
Fairmont, W. Va	16.111		1							• • • • • •
Fall River, Mass	129,828	48	5]		7		••••;•		11	5
Farrell. Pa	17, 872 1 10, 190	8	1 1							• • • • •
Fall River, Mass Fargo, N. Dak Farrell, Pa. Findlay, Ohio.	1 14, 858	9					•••••			i
Find Wich Fond du Lac, Wis Fort Dodge, Iowa Fort Scott, Kans. Fort Worth, Tex. Fostoria, Ohio	57.386 21,486	33 11	2	1	•••••	•••••	•••••	•••••		· · · · · ·
Fort Dodge, Iowa	21.039						2			· · · · · ·
Fort Scott, Kans.	10, 564	6					•••••			•••••
Fort Worth, Tex	109, 597 10, 959	53 6	;-					•••••	2	2
Fostoria, Ohio. Frederick, Md. Freeport, Ill. Fremont, Nebr.	11. 225	11								
Freeport, Ill	19,844	5					• • • • • • • •			· • • • • • •
Galeshurg III	10.080 24.629	11 14					• • • • • • •	•••••		2
Gardner, Mass	17.534		2						2	····i
Fremont, Nebr. Galesburg, Ill. Gardner, Mass. Geneva, N. Y. Grand Rapids, Mich. Green Bay, Wis. Greenfld, Mass. Greenville, S. C. Greenwich. Conn. Hackensack, N. J. Hammond, Ind. Harrisburg, Pa.	13,915		····ː		ا بين		1		اا	•••••
Green Bay, Wis.	132, 861 30, 017	63 11	3		2 .		2	•••••	2	1
Greenfield, Mass	12. 251	9								
Greenville, S. C	18.574 19.594	5			1 .	••••• •	····;· ·			
Hackensack, N. J.	17.412	14					1		····i	• • • • •
Hammond, Ind	27.016	14								i
	73, 276	48	1	····i·	18		1 2		····i	
Hartford, Conn	112,831 49,180	13	8 2				1		i	4
Mazelton, Pa	28,981		2				ا			

¹ Population Apr. 15, 1910.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Mes	ısles.	Sca fev	rlet er.	Tu cul	ber- esis.
City.	by U. 8. Čensus Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Helena, Ark. Henderson, Ky. Highland Park, Mich Hoboken, N. J. Holland, Mich Holyoke, Mass. Houston, Tex. Hudson, N. Y. Independence, Mo. Independence, Mo. Indianapolis, Ind Ithaca, N. Y. Janesville, Wis. Jersey City, N. J. Johnstown, N. Y. Johnstown, N. Y. Johnstown, N. Y. Johnstown, N. Y. Johnstown, N. Y. Johnstown, N. Y. Johnstown, N. Y. Johnstown, N. Y. Johnstown, N. Y. Johnstown, N. Y. Johnstown, N. Y. Johnstown, N. Y. Johnstown, N. Y. Johnstown, N. Y. Johnstown, N. Y. Lachase, Ill. Kansas City, Kans. Kansas City, Mo. Kearny, N. J. Kenosha, Wis. Knoxville, Tenn Kokomo, In1 Lackawanna, N. Y. La Crosse, Wis. La Fayette, Ind Lancaster, Pa. Lawrence, Mass. Leavenworth, Kans Lawrence, Mass. Leavenworth, Kans Lincoln, Nebr. Little Rock, Ark. Lograpport, Ind. Lon? Branch, N. J.	11.122	4								
Henderson, Ky	12.312	7								
Hoboken, N. J.	33. 859 78. 324	15	1		i		1	1	ii	
Holland, Mich	12, 459	3								
Holyoke, Mass	66.503	34	5						3	l
Hudson N Y	116 878 12 898	52 8	9	1			1		3	
Independence, Mo	11,964	8								
Indianapolis, Ind	283, 622	93	11		10		7		1	
Ithaca, N. 1	16,017 35,996	19		ļ			5		2	
Jamestown, N. Y	37, 431	16	3					l	2	
Janesville, Wis	14,411 312,557	8								
Jersey City, N. J	312,557 10,678	2	19		1		6		16	
Johnstown, Pa.	70, 473		7				1		3	
Kalamazoo, Mich	50, 408	28	2				ī		1	
Kankakee, Ill	14,270 102,096		1							ļ
Kansas City, Kans	102, 096 305, 816	241	3 7						1	
Kearny, N. J.	24, 325	241	·		ĩ		4		2	
Kenosha, Wis	32, 833	7	1		1		2			
Knoxville, Tenn	59, 112		2	1			1		3	
Kokomo, Ind	21, 929 16, 219	6 16	6	i	11		$\frac{1}{2}$	· · · · ·	2	• • • • •
La Crosse Wis	31, 835	21	U		11		i			
La Fayette, Ind	21,481	16	3	1						
Lancaster, Pa	21, 481 51, 437 13, 477		5		3					
Awrence, Kans	13, 477 102, 9 23	18 35	····i				• • • • •		3	• • • •
Lawrence, mass	1 19, 363	14	3				i			
Lincoln, Nebr	46, 957	29	1				1			
Little Rock, Ark	58, 716	13	4				5		2	
Logansport, Ind	21, 338 29, 163	14 17	6			• • • • •	····i	• • • • •	1	
Long Branch, N. J.	15, 733	6							i	
Ogaspot, On: Beach, 'al Lon: Branch, N. J. Orain, Ohio. Os Anzeles, 'al Louisville, Ky	აი, 200	12	1				5			
Los Angeles, Cal	535, 485	286	18	3	$\frac{1}{2}$		9	• • • • •	30 7	2
LOUISVIIIC, Ky	240, 808 114, 356	116 46	5 8		3		6		3	
vnchburg. Va	33, 497	9							1	
Lynn, Mass	104,534	67	6	1			1	1	4	
McAlester, Okla	19, 398 17, 709	7	1	1	-;			• • • • • •		· · · · ·
Manandy City, ra	52, 243		4				····i			
Louisville, Ky Lowell, Mass. Lynn, Mass. Lynn, Mass McAlester, Okla. Mahanoy City, Pa Malden, Mass Manchester, Conn. Manchester, N. H. Manistee, Mich	15, 859	3	!				$\hat{3}$			
Manchester, N. H	79,607	24	4	2	• • • • • •		1		6	
Manistee, Mich	1 12, 381 13, 931	8	····i				• • • • • •	•••••		
Mansfield. Ohio	25,051	•							1	
Marinette, Wis	1 14, 610	12	1				1			
Manistee, Mich Manitowce, Wis. Mansfield, Ohio Marshallown, Iowa Marshallown, Iowa Marshallown, Iowa Mason City, Iowa Mason City, Iowa Masollon, Ohio Medford, Mass Melrose, Mass Melrose, Mass Melrose, Mass Middletown, Ohio Middletown, Ohio Middletown, Ohio Milford, Mass Milwaukee, Wis. Minneapolis, Minn Missoula, Mont	14,519	2	1		• • • • • •	• • • • • •	1	• • • • • • • • • • • • • • • • • • • •	• • • • • •	
Martins Ferry, Ohio	10, 135 14, 938	9		• • • • • •	• • • • •					
Massillon. Ohio	15, 509	6								
Medford, Mass	26, 681	11	3	!					;	
Melrose, Mass	17, 724 151, 877	9	:		2		3		9	
Meridian Miss	21,824	75 8	8		2		3		2	
diddletown, Ohio	16, 584	5								••••
filford, Mass	14, 280	6		!	:		:	:		i
dilwaukee, Wis	445,008	278 180	6 19	1	.2	1	18	1	23	1
Missoula Mont	373, 448 19, 075	180	19		1					
Mobile, Ala	59, 201	29	1				1			
Moline, Ill	59, 201 27, 976	18	1	!	•••••		1	• • • • • •		:
Minneapons, anni Missoula, Mont Mobile, Ala Moline, Ill Monessen, Pa Montclair, N. J.	23,070	5	5 1	'	• • • • •	•••••	• • • • • •	•••••	· · · · · ·	• • • • •
Montelair, N. J	27,087 44,039	23					2			• • • • •
LULIUEDIUCI Y , Akki	14, 444	4.7	3				-			

¹ Population Apr. 15, 1910.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria	Mea	asles.		arlet ver.		iber- losis.
City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Moundsville, W. Va	11,513 20,709	19	 		.	ļ	 	1		
Mount Sylle, W. Va	20,709 37,991	8	2	· ····	•				2	
Mirnele Ind	25,653	10							4	i
Nanticoke, Pa Nashua, N. H. Nashville, Tenn	23, 811 27, 541		2		. 1		1			
Nashua, N. H	27, 541 118, 136	7 53	3		····i	····i	1 1		····i	· ····;
	10, 140	22			: : .	l			i	2
Newark, N. J. New Bedford, Mass. New Britain, Conn. Newburgh, N. Y.	10, 140 418, 789	186	31	2	4		8		. 16	22
New Bedierd, Mass	121,022 55 395	32 23	3	1 2	1 3		2 2		11	1
Newburgh, N. Y	20 803	14	l				ĩ		i	
Newburybort, Mass	15, 291 14, 144 152, 275	5			.					1
New Haven Conn	152, 275	4 89	13	i	5				5	3
New London, Conn	21, 199	13	5	J			î			
New Orleans, La	377,010	190	1		.				40	29
New Lon Ion, Conn. New Orleans, La. Newport, Ky. Newport, R. Newton, Mass. New York, N. Y. Niagara Falls, N. Y. North Adams, Mass. North Attlebore Mass.	32, 133 30, 585 44, 345	11 11					2			
Newton, Mass	44, 345	15	3	i			1		3	i
New York, N. Y	5 737 409	1,707	259	23	18		98		211	155
North Adams, Mass	38, 466 1 22, 019 20, 006	4	1						2	
Northampton, Mass	20,006	18	i				2			2
North Attleboro, Mass North Tonawanda, N. Y	11,248	4								1
Norwich Conn	14,060 21,923	6 2	1							i
Norwich, Conn. Norwood, Ohio. Oakland, Cal.	21,923 23,269	5								l
Oakland, Cal	206, 405 1	81	2		1		2		3	3
Ogden, Utah	32, 343 20, 162	17	·····2							
Oil City, Pa. Oklahoma City, Okla. Olean, N. Y. Omaha, Nebr	97, 588 16, 927	30							2	3
Olean, N. Y.	16,927	7	;;.				2	•••••		;
Orange, N. J.	177,777 33,636	114 21	10 3	2	4	• • • • • • •	2	1		11
Orange, N. J. Oshkosh, Wis. Ossining, N. Y. Oswego, N. Y.	33,549	9			i					
Ossining, N. Y.	14,064 24,219	8	1				1	•••••	1	
Palestine, Tex	12,075	1 5					2		1	
Palestine, Tex Parkersburg, W. Va. Pasadena. Cal. Passaic, N. J. Pawtucket, R. I. Peekskill, N. Y. Pekin, Ill	21,059	6	3						1	1
Pasadena. Cal	49,620 74,478	15 16	5				1		····i	·····i
Pawtucket. R. I.	60,666	29	3				····i			3
Peekskill, N. Y	19 034	6								
Peoria III	10,973	37	6	• • • • • •			····i	• • • • • •	• • • • • •	<u>2</u>
Peoria, Ill. Perth Amboy, N. J. Philadelphia, Pa.	72, 184 42, 646	7							····i	1
Philadelphia, Pa	1,735,514	548	70	2	13		26		66	52
Pittshurgh Pa	14, 275 586, 196	14	18	• • • • • •	····i		10		···ii	
Piqua, Ohio. Pittsburgh, Pa Pittsfield, Mass. Plainfield, N. J. Plymouth Mass	39, 678 24, 330	18								i
Plainfield, N. J.	24,330	7	3							1
Plymouth Pa	14,001 19,439	18	3		····i	•••••			• • • • • • •	1
Plamneld, N. J. Plymouth, Mass. Plymouth, Pa. Pomona, Cal. Pontiac, Mich. Port Chester, N. Y. Portland, Me. Portland, Oreg. Portsmouth, N. H. Pottsville, Pa. Providence, R. I.	13,624	6 · 7								i
Port Charter N V	18,008		4				2		···· ₂	
Portland. Me.	16, 727 64, 720	67		• • • • • • •						2 2
Portland, Oreg	308, 399 11, 730 22, 717	112	4	1	1		4		8	4
Portsmouth, N. H	11,730	••••••	····;·¦		•••••	• • • • •	•••••	•••••	1	•••••
Providence, R. I	259, 895	113	19	3			6			9
Rouncy, Ill. Rahway, N. J. Raleigh, N. C. Reading, Pa	36,832	17					ĭ.			•••••
Rahway, N. J	10, 361 20, 274	18	•••••	•••••	••••• •	•••••	-	•••••	····i	·····i
Reading, Pa	111,607	10	7		22		···i			
Redlands, Cal	14.573 .						ī].		i	•••••
Riverside Cal	158 702 1	114	6	1	1	••••• •	···i	•••••	1	11 3
Roanoke, Va.	20, 496 48, 282 264, 714	15 27	2		3 .					
Redlands, Cal. Richmond, Va. Riverside, Cal. Roanoke, Va. Rochester, N. Y.	264, 714	148	6	1	1 .		14 .		5	5 1
Rockford, Ill	56,739	18 1.	'.	!	1		II.			1

¹ Population Apr. 15, 1910.

<u></u>	Popula- tion as of July 1, 1917	n as of Total 1,1917 deaths		theria.	Me	asles.		arlet ver.	Tu cul	ber- osis.
City.	City. (estimated by U. S. Cansus Bureau).	from all causes.	Cases.	Deaths.	Casses.	Deaths.	Cases.	Deaths.	Cased.	Deaths.
Rock Island, Ill	29,452	19	ļ <u>.</u> .		ļ	ļ. .	1			
Rocky Mount, N. C	12,673 24,259	3	1			•••••			····i	
Rutland, Vt	15,038	7	;				;			
Saginaw, Mich.	68, 984 56, 469	55 40	3		i		i		3	
Sacramento, Cal. Saginaw, Mich. St. Joseph, Mo. St. Louis, Mo. St. Paul, Minn.	86, 498	37 463	8 42	1 3	2		6 12		25	
St. Paul, Minn	768, 630 252, 465	130	9	3	í		9		5	18
St. Paul, Minn Salem, Mass. Salt Lake City, Utah. San Angelo, Tex. San Antonio, Tex San Diego, Cal. Sandusky, Ohio. Sanford, Me. Santa Rarbara Cal	252, 465 49, 346 121, 623	48	4 5	····i			2	1		· · · · · ·
San Angelo, Tex	1 10, 321	5		1	. .			1		· · · · i
San Antonio, Tex	128, 215	29 95	2					•••••	6	- 6
Sandusky, Ohio	56,412 20, 226	20							i	
Sanford, Me	11,217 15,360	2 6					• • • • • • •			
Sanford, Me. Santa Barbara, Cal. Santa Crus, Cal. Saratoga Springs, N. Y. Sault Ste. Marie, Mich. Schenectady, N. Y. Shamokin, Pa. Shenandoah Pa.	15, 150	2					i			
Saratoga Springs, N. Y	13,839	6 2	•••••		• • • • •	•••••		•••;••	• • • • • •	
Schenectady, N. Y	14,130 103,774 21,274	25	4		2				2	
Shamokin, Pa. Shenandoah, Pa. Shenandoah, Pa. Shenandoah, Pa. Sioux City, Iowa. Sioux Fails, 8. Dak Somerville, Mass South Bend, Ind. Southbridge, Mass Springfield, Ill. Springfield, Mass. Springfield, Ohio. Stockton, Cal Superior, Wis. Syracuse, N. Y. Tacoma, Wash Taunton, Mass. Terre Haute, Ind. Toledo, Ohio. Trenton, N. J. Tuscaloosa, Ala	21, 274 29, 753		5 1	•••••	2		••••		6	•••••
Sioux City, Iowa	58, 568		î							· · · · · •
Sioux Falls, B. Dak	16,887 88,618	28	4		•••••	•••••		•••••	4	
South Bend, Ind	88, 618 70, 967	21							7	i
Southbridge, Mass	14, 465 62, 623	5 51	2	•••••	• • • • • •					·····i
Springfield, Mass	100 660	85	6	ï			····i		4	4
Springfield, Ohio	52, 296 36, 209 47, 167 158, 559	20 46	•••••		38		• • • • • •			• • • • •
Superior, Wis	47, 167	15	····i							• • • • • • •
Syracuse, N. Y	158, 559 117, 446	47	7 3	••••			13 3		4	3
Taunton, Mass.	36,610	13			16		1		···i	····i
Terre Haute, Ind	36, 610 67, 361 202, 010 113, 974	26 134	8		;		! 5 ¦		••••;•	2
Trenton, N. J.	113, 974	32	6	1	1			2	1 4	5 3
Tuscaloosa, Ala	10,041	7 2	1						2	•••••
Treation, N. J Tuscalooss, Ala Vallejo, Cal. Waco, Tex Waltham, Mass Warren, Pa Washington, D. C.	13,803 34,015	6	····i		3				····i·	····i
Waltham, Mass	31,011	8					2			ī
Washington, D. C.	15,083 369,282	231	2 18	5	2		5		13	·····ġ
Washington, Pa	369, 282 22,076		1							· · · · · · ·
Watertown, Mass	36,987 15,188	25 2	2				1			· · · · · · ·
Wausau, Wis	19,666	5								1
Westfield, Mass	13,403 18,769	18	5	i .			3		1	i
West Hoboken, N. J.	44,386	10	1						1 .	· · · · · · · ·
West Orange, N. J.	19,613 13,964	2 5	1 3		\cdots	• • • • • • • • • • • • • • • • • • • •	1		1	•••••
Wheeling, W. Va	43,657	31								2
Wilkes-Barre, Pa	73, 597 78, 334		···i			· ¦-	;		2 !	1
Wilkinsburg, Pa	23, 899		i i							
Wilmington, N. C.	95, 369 30, 400	34 16	3	1			1 .		3 -	3 2
Winchester, Mass	10,812	4 .								_
Warren, Pa Washington, D. C. Washington, Pa. Waterloo, lowa Waterloo, lowa Waterloo, lowa Waterloo, lowa Waterloo, lowa Waterloo, lowa West Chester, Pa West Chester, Pa West Chester, Pa West Hoboken, N. J. West Hoboken, N. J. West Orange, N. J. West Orange, N. J. Wheeling, W. Va Wichita, Kans Wilkinsburg, Pa Wilkinsburg, Pa Wilkinsburg, Pa Wilkinsburg, Pa Wilmington, N. C. Winchester, Mass Winona, Minn Winston-Salem, N. C. Winthrop, Mass Wobourn, Mass Wobourn, Mass Worcester, Mass. Yonkers, N. Y. Youngstown, Chio Zanesville, Ohio.	1 18, 583 33, 136	33	······ ·	· • • • •		· • • • •	····;-¦·		2	i
Winthrop, Mass	33, 136 13, 105		i [.						.ا. 'ا	
Worcester Mass	16,076 166,106	12 83	٠٠٠٠ إ٠٠	-		-				4
Yonkers, N. Y.	103,066	25	1			i	1			2
Youngstown, OhioZanesville Ohio	103,066 112,282 31,320	46 24	1 .		3		4	•••••	2	2 1 2
	01,020	44 .	; .	-			4 }.	! -		2

¹ Population Apr. 15, 1910.

FOREIGN.

INFLUENZA ON VESSELS.

Steamship "Aikoku Maru"-Ponta Delgada, Azores.

Influenza affecting nearly the entire crew was reported December 28, 1918, on the steamship Aikoku Maru at Ponta Delgada, Azores.

Steamship "Demerara"-Rio de Janeiro, Brazil.

An epidemic outbreak of influenza was reported at Rio de Janeiro, Brazil, occurring in connection with the arrival at that port of the steamship *Demerara* from Europe.

BRAZIL.

Influenza-Para.

During the period from October 20 to November 23, 1918, 21,000 cases of influenza, with 541 fatalities, were reported at Para, Brazil.

Further Relative to Influenza—Rio de Janeiro.1

According to information dated October 30, 1918, epidemic influenza had occurred at Rio de Janeiro, Brazil. It was stated that the infection spread rapidly and that within a few days there were between 200,000 and 300,000 cases of the disease. It was estimated that about 700,000 inhabitants of the city, the population of which was approximately 1,000,000, were attacked. The number of fatalities was estimated at about 15,000, occurring during a prevalence of less than six weeks. On October 30, 1918, the disease was reported to be still present but with an inconsiderable number of cases.

CHILE.

Typhus Fever-Santiago-Valparaiso.

Typhus fever was reported present at Santiago, Chile, December 30, 1918, with about 30 cases, and at Valparaiso with about 300 cases.

ECUADOR.

Antimosquito Campaign-Guayaquil.

According to information dated November 27, 1918, a campaign for the destruction of the yellow fever mosquito has been initiated at Guayaquil, Ecuador. Insanitary localities are stated to be in process of correction, both as regards the destruction of larvæ and the prevention of egg laying.

PORTUGUESE EAST AFRICA.

Influenza-Lourenço Marques.

During the two weeks ended November 3, 1918, 239 cases of influenza were reported at Lourenço Marques, Portuguese East Africa.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER. Reports Received During Week Ended Jan. 10, 1919.1

CHOLERA. Place. Date. Cases. Deaths. Remarks. India: Bombay. Aug. 18-Oct. 5... 15 11 Indo-China: Cochin-China Oct. 7-Nov. 3... Saigon .. 15 9 Mesopotamia: Bagdad . . Oct. 11-18..... Philippine Islands: Manila Oct. 27-Nov. 2. 20 12 Provinces..... Oct. 27-Nov. 2, 1918: Cases, 247; Batangas... Oct. 27-Nov. 2... 97 deaths, 206. Bohol.....do...... Bulacan.. .do.. Cavite..... 20do.. 16 Iloilo.... .do. 3 Laguna.. ...do. Misamis. .do. Oriental Negros..... ...do... 87 Pangasinando. 69 Rizal..... ..do.. Union..... ..do. 4 2 Russia: 1,054 Petrograd..... To July 16...... July 17-Aug. 21.. 3,388 2,943 In civil hespita's. In mi'itary hospita's, Ju:y 5-Aug. 21, 1918: Cases, 884; deaths, 783. 1,455 Do..... PLAGUE. Ecuador: Guayaquil Nov. 1-15..... 3 3 India.. ept. 23-Oct. 19, 1918; Cas#3, 9,965; deaths, 7,756. Bombay... Karachi... Aug. 18-Oct. 19. . Sept. 22-Oct. 19. . 32 21 Oct. 13-26..... Madras Presidency..... 206 135 Indo-China: Cochin-China-Oct. 7-Nov. 3... 3 1 Saigon.... SMALLPOX. Algeria: Oct. 1-31.. Algiers 1 Canada: New Brunswick-St. John Nov. 8-14.... 3 Quebec Montreal.... Nov. 24-30.... Quebec... Dec. 15-21..... ī Reported as varioloid. Bombay...... Karachi Aug. 18-Oct. 19.. Sept. 29-Oct. 5... .1 Indo-China: Cochin-China Saigon Oct. 7-20..... 3 Japan: Kobe. Nov. 17-30.... 48 8 Mesopotamia: Bagdad... 11 Oct. 11-18... Mexico: Ciudad Juarez. Nov. 24-30.

¹From medical officers of the Public Health Service, American consuls, and other sources.

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CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received During Week Ended Jan. 10, 1919—Continued.

SMALLPOX-Continued.

Date.	Cases.	Deaths.	Remarks.
Dec. 7-13do	60 60	3 155	Placentia Bay.
Oct. 6-12	1		
TYPHUS	FEVE	· · · · · · · · · · · · · · · · · · ·	
:			
Nov. 8-Dec. 7		2	
Oct. 1-7	16	6	
Sept. 29-Oct. 19		19	
YELLOW	FEVE	<u></u> : ≀.	and the second of the second o
Nov. 1-15dododo	1 38 1	1 21	
	Dec. 14-20	Dec. 14-20. 1 do. 2 Dec. 7-13. 3do 4 Dec. 14-20. 1 Dec. 7-13. 4do 60 Oct. 1-31. Sept. 1-Oct. 31 Oct. 6-12. 1 Aug. 1-30. 1 TYPHUS FEVEI Nov. 8-Dec. 7 Oct. 1-7. 16 Sept. 29-Oct. 19 YELLOW FEVEI	Dec. 14-20. 1do. 2do. 3do 4do 4do 4do 4do 60do

Reports Received from Dec. 28, 1918, to Jan. 3, 1919.1

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India: Madras. Rangoon Indo-China: Anam. Cambodia. Ccehin-China. Tonkin. Java: East Java	Aug. 1-31do	98	18 1 5 71 89	Oct. 7-21, 1918: Cases, 109; deaths,
Surabaya Mid-Java	Oct. 7-21	7	6	94. Sept. 25-Oct. 16, 1918: Cases,
Samarang West Java	Sept. 25-Oct. 16	120	111	1,389; deaths, 867. Oct. 2-23, 1918: Cases, 190; deaths,
Batavia Philippine Islands:	Oct. 2-23	140	84	112.
Manila Provinces	.		4	Nov. 2-9, 1918: Cases, 264; deaths,
Batangas. Bohol. Cavite. Iloilo. Oriental Negros. Pangasinan. Tayabas. Union	Nov. 3-9. do. do. do. do. do.	17 18 6	44 15 12 3 5 123	211.

¹ From medical officers of the Public Health Service, American consuls, and other sources. For reports received from June 29, 1918, to Dec. 27, 1918, see Public Health Reports for Dec. 27, 1918. The tables of spidemic diseases are terminated semiannually and new tables begun.

Present among natives in several interior towns.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from Dec. 28, 1918, to Jan. 3, 1919—Continued.

PLAGUE.

		GUB.		
Place.	Date.	Cases.	Deaths.	Remarks.
China: Amoy. Hongkong. Do. Nanking. India: Karachi. Rangoon Indo-China: Anam Cambodia. Cochin-China Java: Fast Java. Surabaya. Mid-Java. Samarang Siam:	Oct. 26-Nov. 2. Nov. 9-16 Nov. 2-9 Oct. 19-26 Oct. 5-12 Aug. 1-31 do. do.	i	1 1	Present.
Bangkok	Oct. 5-12.	2	3 2	
	SMAL	LPOX.		
Canada: IIalifax	Dec. 7-14	4 1		Present.
Foochow Denmark: Copenhagen India: Madras Indo-China:	Nov. 9-23 Oct. 5-26	5 12	8	Always prevalent.
Anam	Aug. 1-31do	29 78 97 5	8 40 27	
Kobe. Java: East Java. Surabaya. Mid-Java. West Java	Oct. 26-Nov. 9 Oct. 7-21	3	4	Oct. 7-21, 1918: Cases, 6. Sept. 25-Oct. 16, 1918: Cases, 55. Oct. 2-23, 1918: Cases, 313; deaths,
West stavia. Batavia. Newfoundland: St. Johns. Philippine Islands: Manila.	Oct. 2-23	73 3 2	58 2	101.
Portugal: Lisbon	Nov. 16-23	255		•
	TYPHUS	FEVER	t.	
Brazil: Ceara Egypt: Alexandria	Sept. 14-21 Oct. 14-Nov. 25	1 63	39	
Japan: Nagasaki	Nov. 10-24	2	1	Oct. 7-21, 1918: Cases, 5.
Mid-Java	Oct. 2-23	15	4	Sept. 25-Oct. 16, 1918: Cases, 8. Oct. 2-23: Cases, 31; deaths, 6. Present among natives in several

Port Elizabeth.....